

## STATE WORKFORCE INVESTMENT BOARD

O FFICE OF THE GOVERNOR

# The SWIB Workforce Development Needs Study

A Report to the Mississippi Legislature

February 2015

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#### **EXECUTIVE SUMMARY**

The State Workforce Investment Board (SWIB) was directed through a 2014 amendment to Miss. Code Ann. § 71-5-353 to conduct a study on workforce development needs in Mississippi and report back to the legislature in February 2015. Specifically, SWIB was directed to:

# 1. Identify Mississippi's workforce development needs, including:

- The current and projected workforce needs of existing and potential Mississippi industry.
- b. The needs of the state's workers and residents requiring additional workforce training to improve their work skills.
- c. The needs of workforce service and training providers to improve their ability to offer industry-relevant training.

#### Assess Mississippi's current workforce development service delivery structure, including:

- d. A SWOT (Strengths, Weaknesses, Opportunities, and Threats) analysis of the current service delivery structure.
- e. Identification of strategic options of workforce development services.
- f. Development of results-oriented measures that can be tracked over time.

# 3. Provide recommendations on future uses of state workforce investment funds, including:

- g. Promotion strategies for workforce development programs.
- h. Initiatives to reduce dropout rates.
- i. Long-term monitoring of the state's workforce development programs.
- Study of the potential restructuring of the state's workforce programs and delivery systems.

Beginning in July 2014, SWIB directed and conducted a series of activities to meet the legislative intent. SWIB directed a labor market

analysis in conjunction with the Mississippi Department of Employment Security (MDES), the Mississippi Department of Human Services (MDHS), the Mississippi Development Authority (MDA), and the National Strategic Planning and Analysis Research Center (nSPARC) to identify Mississippi's workforce development needs. To assess Mississippi's current workforce development service delivery structure, SWIB formed a task force comprised of leaders from workforce, education, and training organizations in the state. SWIB also authorized a review of the Workforce Enhancement Training (WET) fund and undertook an examination of the 2014 Workforce Innovation and Opportunity Act (WIOA) as it relates to the development of a unified state workforce system plan. Finally, SWIB collaborated with the Georgetown University Center on Education and the Workforce (CEW) to identify future research on how the creation of human capital can be utilized by the business community in the state.

Currently, Mississippi's economy is strong. After struggling with high unemployment rates, the state's labor market is experiencing a recovery that offers new economic opportunities for workers and job seekers. Employers are showing confidence in the state's workforce, establishing new jobs and looking for qualified employees. In 2014, the manufacturing sector created the largest number of jobs with 21,415, and the natural resource sectors, such as agriculture, forestry, and mining, created the second largest number of jobs with 21,254.

Three key findings emerged from the study:

- A continued decline in workforce participation rates remain a critical threat to the long-term economic viability of the state.
- Middle-skill jobs present the strongest demand and the largest gap in workforce needs.
- The state lacks a coordinated workforce development system that operates as an ecosystem where all parts are connected and line up to achieve common goals and visions.

SWIB identified three goals that should guide the operation and functioning of the state workforce system:

- Improve workforce participation rates so every Mississippian will have the opportunity to find gainful employment.
- 2. Eliminate the workforce skill gap for the increasing demand in middle-skill jobs.
- 3. Create a workforce system that acts and functions as an ecosystem.

Several key recommendations are proposed to guide future focus on workforce development in the state:

- Develop a long-term, unified, strategic workforce initiative plan aimed at aligning goals and objectives that would define the state workforce system.
- Develop a shared governance with clear policies and procedures to ensure that all of the elements of the workforce development system remain coordinated.

- Strengthen interagency partnerships to position the state to compete more effectively for grant opportunities.
- Build more bridges between all educational sectors (K-16) and employers to capitalize on state investment in education and grow highskill job opportunities through experiential education opportunities such as internships and co-ops.
- Develop cross-program performance metrics to enable improved monitoring of workforce development programs to gauge progress.
- Continue to invest in integrated technology to meet the unified technology requirements of WIOA and other federal initiatives.
- Engage in continuous research and analysis to realize the potential of the state's workforce programs and delivery systems.
- Deliver a unified message to promote the components of the training and workforce system.

### MISSISSIPPI'S WORKFORCE DEVELOPMENT NEEDS

As directed by Miss. Code Ann. § 71-5-353, SWIB leveraged existing state resources and entities to conduct a labor market analysis to identify Mississippi's workforce development needs. The process included an examination of the post-recession Mississippi economy and paid particular attention to workforce opportunities and vulnerabilities.

#### Overview of Mississippi's Economy

The great recession of 2007-2009 began as a financial crisis but played out as an enduring employment crisis affecting many employees and job seekers. Mississippi, like the rest of the country, experienced a dramatic loss of jobs that translated into historically high unemployment rates with many people out of work for more than 27 weeks. Like many other states, Mississippi struggled with high unemployment rates but is now experiencing a recovery that offers new economic opportunities for workers and job seekers.

#### **Employment and Emerging Opportunities**

Mississippi's unemployment rate has dropped from 10.6 percent in 2010 to 7.2 percent in 2014 (see Appendix A). The number of underemployed citizens declined from 17.6 percent in 2010 to 13.6 percent in 2014 (see Appendix B). State median household income has grown for all income brackets except the top quintile, which is good news for middle-class workers (see Appendix C). Bureau of Labor Statistics (BLS) data show a boom in the growth of new businesses with 2,146 new starts in 2011, bringing the number of new business establishments since 2011 to more than 70,000 in Mississippi (see Appendix D).

Mississippi has several major industrial sectors. Wholesale and retail trade constitute the largest sector (16 percent of total employment), and manufacturing is the second largest sector (14 percent of total employment). Other sectors that account for more than 10 percent of total employment include tourism (accommodation and

leisure), healthcare, and educational services. Together these sectors account for 65 percent of all employment in the state (see Appendix E).

Employers are showing confidence in the state's workforce, establishing new jobs and looking for qualified employees. In 2014 alone, there were 108,613 job openings posted statewide. Manufacturing constituted the largest amount of job creation in the state with 21,415 job openings. In addition, natural resource sectors such as agriculture, forestry, and mining provided 21,254 job opportunities (see Appendix F).

Manufacturing not only provides the largest number of job opportunities but also offers high-wage opportunities. Since 2012, more than 300 new manufacturing establishments have opened in the state, and 50 of those are advanced manufacturers that higher wages than traditional pay manufacturers. Moreover, jobs created by recently attracted advanced manufacturers pay even more than existing advanced manufacturers in the state - about \$5,000 more, or an annual average of \$51,000.

#### Labor Force Preparedness and Preparation

Despite the improved economic outlook, the state has some serious vulnerabilities. According to the Mississippi Department of Human Services (MDHS), more than 300,000 people are able to work in Mississippi, but because they are unable to gain meaningful employment, they rely on the Supplemental Nutrition Assistance Program (SNAP) and other public programs for financial support. Equipping SNAP recipients to take better advantage of available and emerging economic opportunities would have a significant impact on the state's unemployment rate. Estimates show that when adjusting for this population, the unemployment rate could drop substantially from 7.2 to 5.1 percent.

Many of the long-term unemployed become discouraged and drop out of the labor force, contributing to the decline of workforce availability in the state. The Bureau of Labor Statistics shows that the workforce participation rate in the state has declined from 59.2 percent in 2011 to 54.6 percent in 2014, placing the state at the bottom for workforce availability and contributing to Mississippi's persistently high poverty rate (24 percent in 2014) (see Appendices G and H).

In addition, employers have had problems filling open jobs. The main reason is that individuals do not

have the educational or work requirements to fill the open jobs.

Developing career readiness is a process that should start with students in early education and continue through higher education. This process includes developing core competencies in students over time to help prepare them to transition to the workplace. The seven core competencies include critical thinking and problem solving; oral and written communications; teamwork and collaboration; information technology application; leadership; professionalism and work ethic; and career management (see Figure 1).

## K-16 CORE COMPETENCIES

Career readiness is a process of attaining and demonstrating requisite competencies, from K-16, to prepare students to transition to the workplace. The core competency skills identified by the SWIB Task Force include:

#### CRITICAL THINKING/PROBLEM SOLVING

Exercise sound reasoning and analytical thinking; obtain, interpret, and use knowledge, facts, and data; demonstrate originality and inventiveness.

#### **ORAL/WRITTEN COMMUNICATIONS**

Articulate thoughts and ideas clearly and effectively; demonstrate public speaking skills; communicate new ideas to others through writing and editing.

#### TEAMWORK/COLLABORATION

Build collaborative relationships; work in team structure; negotiate and manage conflicts.

#### INFORMATION TECHNOLOGY APPLICATION

Select and use appropriate technology; apply computing skills to problem solving.

#### **LEADERSHIP**

Leverage the strengths of others; use interpersonal skills and emotions effectively; organize, prioritize, and delegate work.

#### PROFESSIONALISM/WORK ETHIC

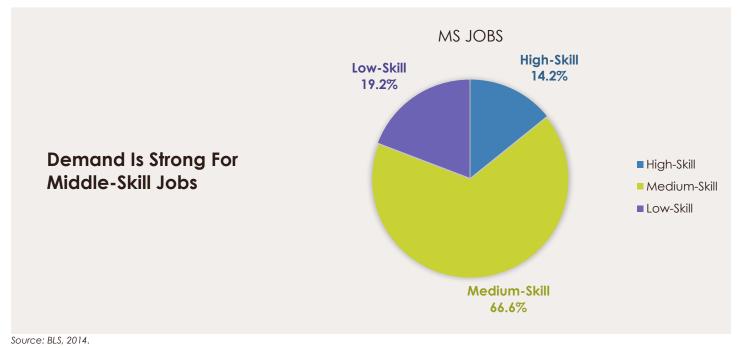
Demonstrate personal accountability, effective work habits, integrity, and ethical behavior; act responsibly; learn from mistakes.

#### **CAREER MANAGEMENT**

Identify and articulate skills, strengths, and experiences; identify areas for professional growth and self-advocacy; explore job options and pursue opportunities.

In fact, one of Mississippi's most pressing workforce needs is to prepare individuals for opportunities in middle-skill jobs, or those that require more than a high school diploma but less than a four-year college degree. Middle-skill jobs account for two-thirds of jobs in the state, but less than one-third of state workers have the educational requirements to fill a middle-skill job. In particular, middle-skill jobs are seeing tremendous growth in the dominant sectors in the state.

To reach parity with the nation, Mississippi must also close the gap with the number of jobs requiring a four-year degree or more education. In this case, the problem is not producing four-year college graduates but retaining them. Many Mississippians with college degrees leave the state for job opportunities elsewhere. The state must create and attract more jobs that require advanced degrees and professional skills (see Appendix L).



Jobs and Workers by Skill Level 14.2 High-Skill 28.9 66.6 Medium-Skill 30.8 Middle-Skill Jobs Skill Gap 19.2 Low-Skill 40.4 0.0 20.0 40.0 60.0 80.0 Percent ■ Workers Jobs

Source: BLS, 2014.

## TOP 5 MIDDLE SKILL JOBS BY SECTOR

Manufacturing (Top 5 Middle Skill Jobs)	
Occupation	Openings
Welders	1,599
Structural Metal Fabricators and Fitters	747
Upholsterers	589
Team Assemblers	554
Heavy and Tractor-Trailer Truck Drivers	440

Wholesale/Retail Trade (Top 5 Middle Skill Jobs)	
Occupation	Openings
Customer Service Representatives	466
Retail Sales Worker Supervisors	318
Heavy and Tractor-Trailer Truck Drivers	166
Light Truck or Delivery Service Drivers	115
Merchandise Displayers and Window Trimmers	102

Accommodation/Food Services (Top 5 Middle Skill Jobs)				
Occupation	Openings			
Food Service Managers	210			
Inspectors, Testers, Sorters, Samplers, and Weighers	150			
Food Preparation and Serving Workers Supervisors	117			
Electrical and Electronics Repairers	100			
Light Truck or Delivery Services Drivers	100			

Healthcare (Top 5 Middle Skill Jobs)	
Occupation	Openings
Nursing Assistants	1,698
Registered Nurses	1,149
Licensed Practical/Vocational Nurses	404
Healthcare Support Workers	266
Office Clerks	120

# WORKFORCE DEVELOPMENT SERVICE DELIVERY STRUCTURE

As directed by Miss. Code Ann. § 71-5-353, SWIB formed a task force to assess Mississippi's current workforce development service delivery structure (see Appendix M). The task force was comprised of leaders from workforce, education, and training organizations in the state to (1) define the workforce system and (2) identify areas of priority.

The task force approached workforce development in a way that included skill development and work preparation along a continuum: basic education or academic skills, career and technical skills, career and work readiness, and entrepreneurship skills. The task force also adopted a workforce development "ecosystem" mindset to understand how individuals currently move through the system. Task force members agreed a workforce development ecosystem must equip individuals with (1) core competencies, (2) foundational skills and (3) advanced skills needed to be successful in the workforce. In addition, the ecosystem must offer employment opportunities to support individuals and families and produce wealth for the state of Mississippi.

# Assessment of Workforce Service and Training Providers

The task force noted several challenges that workforce service and training providers face in preparing individuals for the workforce of the future, including: (1) a low labor force participation rate because people need training to move into the workforce; (2) low education levels, which require remediation and dropout recovery work; (3) lack of coordinated ancillary services such as transportation and child care to get people to take advantage of education and training opportunities; and (4) a lack of coordinated messaging efforts to advertise the availability of training services to potential participants and communicate information about jobs and careers.

The task force also noted that programs and services need to be updated continually to meet the needs of industry partners and to provide the incumbent workforce and job seekers with the most current training available. Workforce training providers need a way to find out quickly about the changing needs in the workplace and to adapt training programs accordingly. Finally, the task force found that workforce training providers from all sectors agreed

<sup>\*</sup>Full list of 2014 jobs by sector (Appendix K)

on the huge need for more coordination and longterm planning in the workforce development training system.

# Assessment of Current Workforce Development System

The task force agreed that the current workforce system is structured to:

- Deliver education and training to prepare individuals for jobs and careers.
- Upgrade, maintain, and fine-tune the skills of the incumbent workforce.
- Connect individuals to jobs and offer supportive services.
- Support business retention, expansion, and recruitment.
- Maintain and improve information that integrates education and workforce data, providing high-quality labor market information.

The task force also addressed opportunities and challenges of Mississippi's current workforce development system. As a result, several strengths, weaknesses, opportunities, and threats to the state system emerged.

#### <u>Strengths of the Current Workforce Development</u> <u>System:</u>

- Contains all of the necessary elements of futureready workforce development ecosystem.
- Recognizes that workforce development is shared responsibility with roles for educational partners, including K-12 schools, two-year colleges, and institutions of higher learning; workforce support services; and public and privately administered programs by employers, business and industry associations, communities, and faith-based partners.
- Provides cross-agency support services that promote education, professional development, and training, especially through the services provided by MDE, community colleges, and institutions of higher learning.
- Connects people to jobs through agency services and innovative use of technology.
   MDES and MDHS currently provide essential support services for people to connect and reconnect with jobs. MDES provides the technological platform and expertise to bridge

- job seekers effectively with employers by connecting multiple stakeholders. MDHS implements programs to assist individuals and families to become self-sufficient. MDOT coordinates a network of public and specialized transportation agencies that help provide access to jobs, education, and training opportunities.
- Leverages the system of Planning and Development Districts (PDDs) across the state to ensure that projects and programs are developed in line with regional long-range plans.
- Integrates community-based organizations (CBOs) into the slate of statewide services.

# <u>Weaknesses of the Current Workforce Development System:</u>

- Ineffective matching of incumbent workers and job seekers to career readiness programs.
- Ineffective matching of college students with career strengthening opportunities, such as experiential education and co-ops.
- Lack of system coordination to inform training and education programs to keep them on the leading edge of workforce expectations.
- Competing visions and interests across sectors, programs, and agencies.

#### <u>Opportunities for the Current Workforce</u> Development System:

- To develop a responsive and proactive workforce ecosystem built on collaboration between statewide leaders, regional experts, and local developers.
- To support state and local efforts dynamically for business retention, expansion, and recruitment.
- To adapt education and training programs to meet current needs and emerging opportunities.
- To develop cross-program performance metrics to enable improved monitoring of workforce development programs to gauge progress in achieving performance benchmarks.
- To expand technology to meet the unified technology requirements of WIOA and other federal initiatives.

# <u>Threats to the Current Workforce Development</u> System:

- Too complex and hard to navigate.
- Insufficient feedback mechanism to inform education and workforce partners so they can adapt to changes in the workforce development ecosystem.
- Changing federal regulations regarding the development of cross-program, cross-agency performance metrics.

#### Identification of Strategic Options of Workforce Development Services

To help in the process of identifying appropriate strategic options for the state, SWIB authorized reviews of strategies and mechanisms currently in place. Specifically, SWIB asked for a review of the Workforce Enhancement Training (WET) fund model and an examination of the reauthorization of the Workforce Investment Act (WIA) into the Workforce Innovation and Opportunity Act (WIOA).

#### **Review of the WET Fund Model**

To help ensure the efficacy and effectiveness of state workforce development training programs, SWIB has asked the Office of the State Auditor (OSA) to conduct a review of WET-funded projects. The proposed analyses that are underway will examine training provision from four perspectives: (1) the community/junior college, (2) the employer, (3) the employee, and (4) the community. The final review objective, provide analysis-based recommendations aimed at improving effectiveness and efficiency of the workforce development training system.

#### **Examination of the WIOA**

The Workforce Investment Act (WIA) of 1998 has been the primary mechanism for the delivery of federal workforce funds to Mississippi. In 2014 WIA was reauthorized as the Workforce Innovation and Opportunity Act (WIOA). WIOA requires the submission of a unified state plan to create a workforce system that closes the skill gap and helps workers and businesses succeed. The program requires states to align workforce programs with each other and the needs of employers to produce a skilled workforce with an emphasis on closing the middle-skills gap. The state plan must be strategic and operational, clearly describing Mississippi's vision

and goals for preparing a skilled workforce that meets employer needs.

The state "playbook," as recommended by the National Skills Coalition, should describe the overall strategy for workforce development and how it will meet identified skill needs for workers, job seekers, and employers. Mississippi's plan should include strategies in four areas:

- Sector partnerships identifying local or regional partnerships and funding streams.
- Career pathways collaborating with stakeholders, including local programs, to use adult education, wrap-around support, and sector partnerships.
- Cross-program data and measurement –
  developing cross-agency data and
  measurement to link data and present them in
  dashboards, to measure outcomes, and to
  provide training and program performance
  scorecards.
- Job-driven investments linking training to the state's in-demand industry sectors and occupations.

Common metrics, or primary indicators of performance, are required in the state plan to link data across workforce and education programs for the purpose of measuring outcomes. Some common metrics in adult programs could be unsubsidized employment, median earnings, receipt of a secondary diploma or recognized postsecondary credential, measurable skills gains toward a credential or employment, and employer engagement. A similar set of common measures should be developed for youth programs.

The WIOA mandates that the SWIB assist in the development of strategies for technological improvements, such as aligning technology and data systems across partner programs to create a "one-stop" location for client intake, data collection, and case management.

As WIOA mandates, a meeting of required partners representing core program was convened by the Mississippi Department of Employment Security (MDES) in partnership with SWIB. Each partner was given an opportunity to discuss current service delivery processes, eligibility, data collection and reporting, performance, and information management systems. This discussion helped SWIB better understand strategic options and will be used by MDES and SWIB in drafting Mississippi's WIOA plan.

#### Development of results-oriented measures

Mississippi is well-positioned for the long-term monitoring of workforce ecosystem performance and the tracking of workforce and education performance benchmarks. In this regard, Mississippi has a well-established and robust statewide longitudinal data system (SLDS) that the U.S.

Department of Education has deemed as one of the best in the country. The Mississippi SLDS includes information from education (PK-20) and workforce agencies in the state that will be aligned to create cross-program performance metrics. The metrics will be actionable, valid, reliable, timely, easy-to-understand, and aligned across sector and delivery mechanisms.

#### RECOMMENDATIONS FOR THE FUTURE

Drawing upon the findings of this study, several key recommendations emerged to guide future focus on workforce development in the state.

# Develop a Long-term, Unified, Strategic Workforce Initiative Plan

SWIB recommends the development of a long-term, unified, strategic workforce initiative plan to serve as the state's blueprint for a coordinated workforce development ecosystem. The unified strategic plan would outline long-term goals and objectives that would define the state workforce system for the next several years. The plan would incorporate regional and local long-range plans, recognizing the autonomy of local organizational partners, and multiyear incremental objectives to define, implement, and measure success of the state workforce development ecosystem. Development of the plan would be a collaborative effort of SWIB workforce, education. and economic development stakeholders across the state.

#### Develop a Shared Governance Structure with Clear Policies and Procedures

SWIB recommends the development of a shared governance structure with clear policies and procedures to ensure that all of the elements of the workforce development ecosystem remain coordinated and to improve the ability to offer industry-relevant training. A set of rules and regulations would be developed to help ensure the efficacy and effectiveness of the state workforce development ecosystem.

#### Strengthen Interagency Partnerships

SWIB recommends strengthening interagency partnerships and developing ongoing working relationships to improve the state's ability to: (1) meet the education and training requirements of the incumbent workforce, (2) design initiatives to reduce the state's high school dropout rate, (3) design

initiatives to increase college graduations rates, (4) promote workforce development programs, and (5) compete for grant opportunities.

# Build More Bridges Between All Educational sectors (K-16) and Employers

SWIB recommends additional linkages between all educational sectors (K-16) and employers to capitalize on state investment in education and to grow high-skill job opportunities through experiential education opportunities such as internships and coops.

#### Develop Cross-program Performance Metrics

SWIB recommends leveraging the Mississippi SLDS in the design, measurement, and analysis of cross-program performance metrics. Mississippi's SLDS is a ready platform for the generation of common performance metrics across workforce development programs and activities.

#### Continue to Invest in Integrated Technology to Meet the Unified Technology Requirements of WIOA and Other Federal Initiatives

SWIB recommends continued support of integrated technological innovation, similar to that which has garnered national awards for the Mississippi Department of Employment Security and the Mississippi Department of Information Technology.

#### Engage in Continuous Research and Analysis to Realize the Potential of the State's Workforce Programs and Delivery Systems

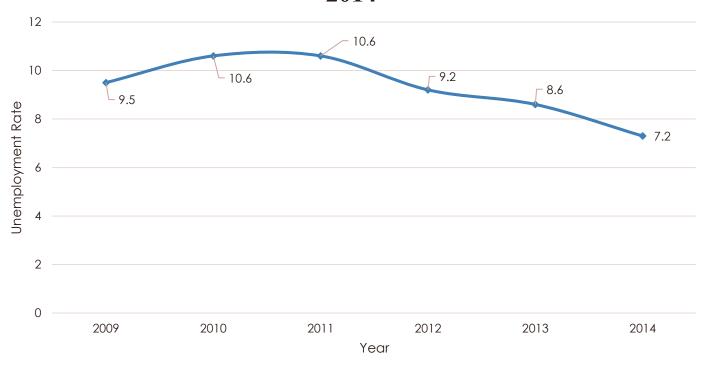
SWIB recommends supporting continuous research to generate information that can inform the improvement of Mississippi's workforce development ecosystem. SWIB further recommends continued partnerships with the Georgetown University Center on Education and the Workforce (CEW), the National Strategic Planning & Analysis Research

Center (nSPARC), and similar organizations or entities to propose and conduct research to evaluate Mississippi's economy further and map out current and future workforce needs to align with the state's economic goals.

#### Deliver a Unified Message

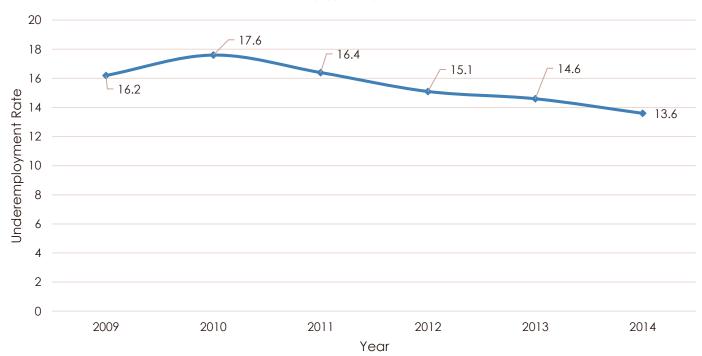
The SWIB recommends that partners in the state's workforce development system develop a unified message to promote and market the components of the training and workforce system.

# APPENDIX A: MISSISSIPPI UNEMPLOYMENT RATE, 2009-2014



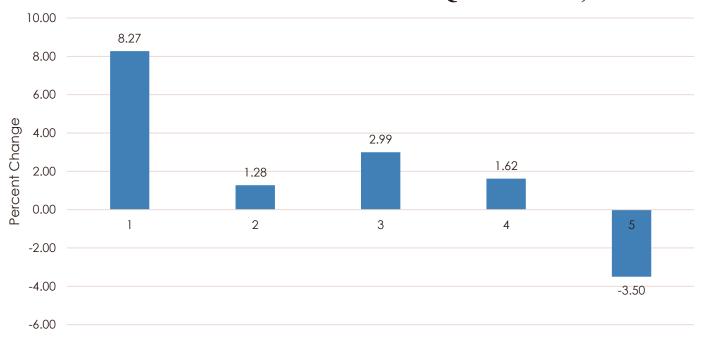
Source: Bureau of Labor Statistics, 2014.

# APPENDIX B: MISSISSIPPI UNDEREMPLOYMENT RATE, 2009-2014



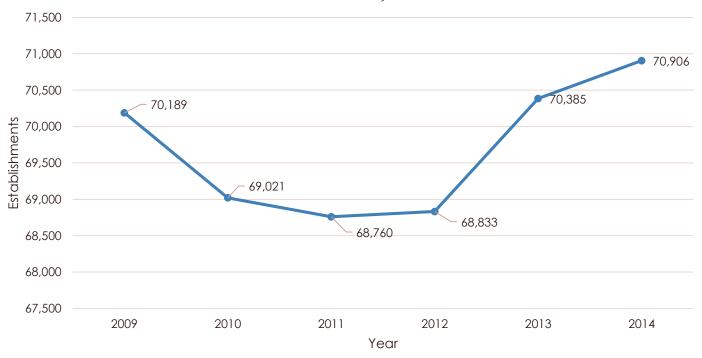
Source: Bureau of Labor Statistics, 2014.

# APPENDIX C: MISSISSIPPI PERCENT CHANGE IN MEDIAN HOUSEHOLD INCOME BY INCOME QUINTILES, 2009-2013



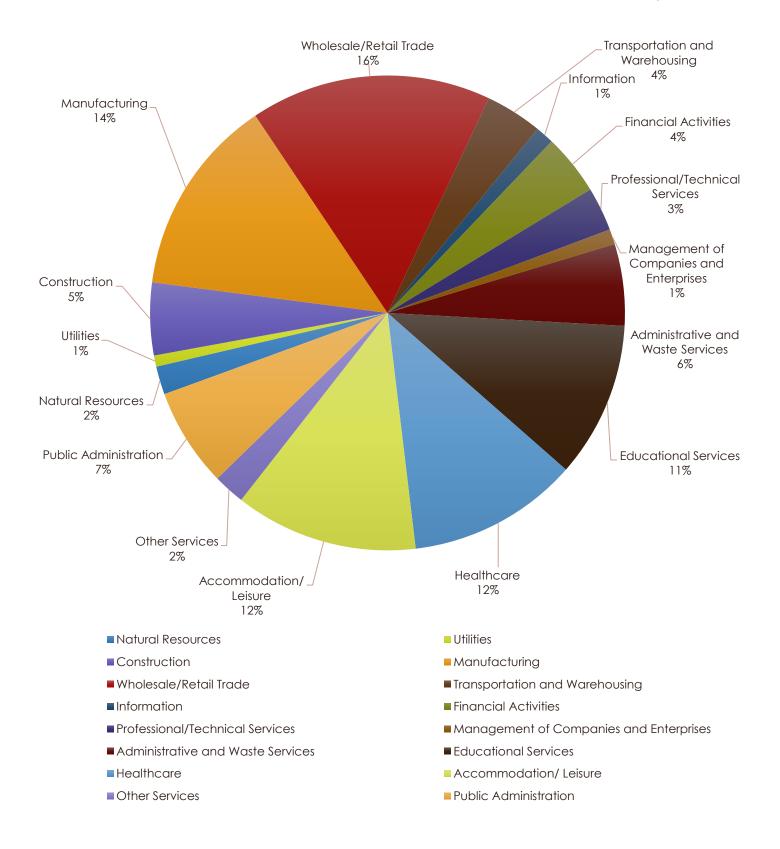
Source: U.S. Census Bureau Current Population Survey, 2014.

# APPENDIX D: NUMBER OF BUSINESS ESTABLISHMENTS IN MISSISSIPPI, 2009-2014



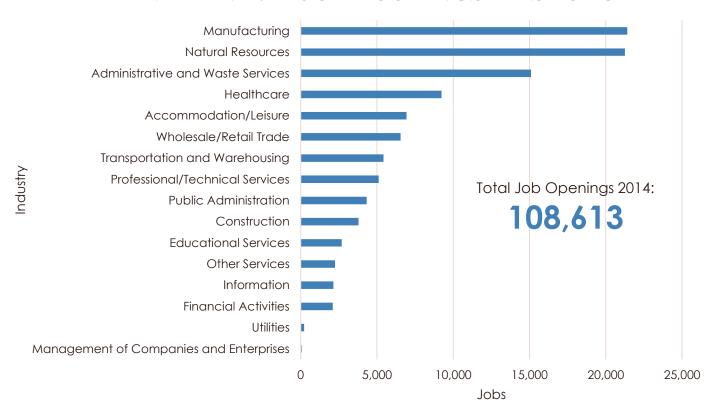
Source: U.S. Bureau of Labor Statistics, 2014.

# APPENDIX E: MISSISSIPPI INDUSTRY SECTORS, 2014



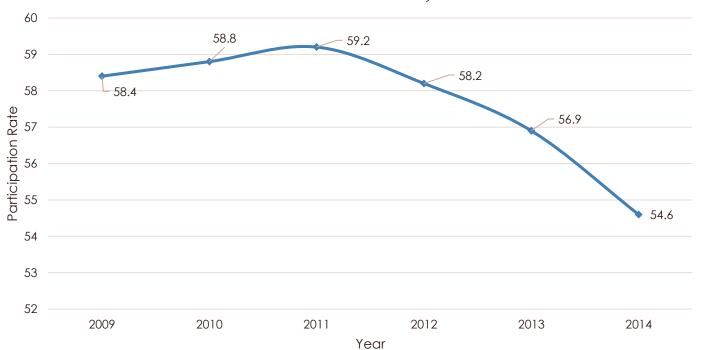
Source: Bureau of Labor Statistics, 2015.

## **APPENDIX F: 2014 JOB POSTINGS BY SECTOR**



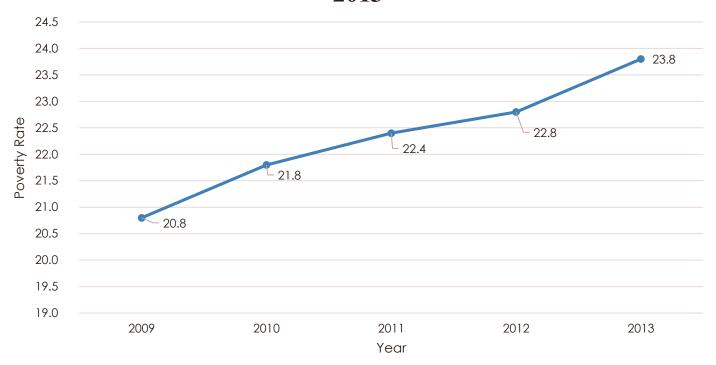
Source: MDES, 2015.

# APPENDIX G: MISSISSIPPI LABOR FORCE PARTICIPATION RATE, 2009-2014



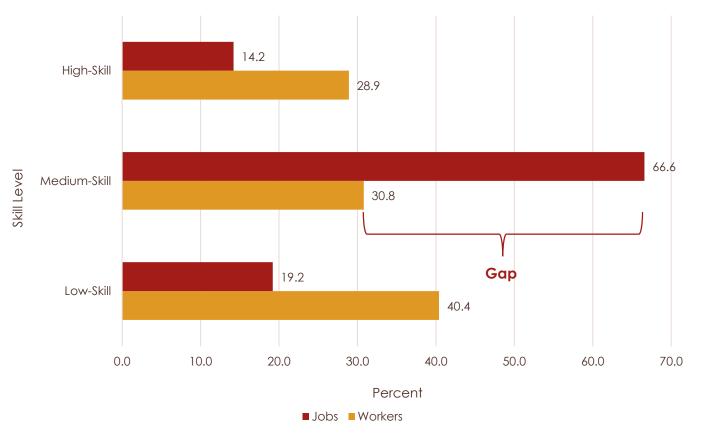
Source: Bureau of Labor Statistics, 2014.

## APPENDIX H: PERCENT IN POVERTY, MISSISSIPPI, 2009-2013



Source: U.S. Census Bureau Current Population Survey, 2014.

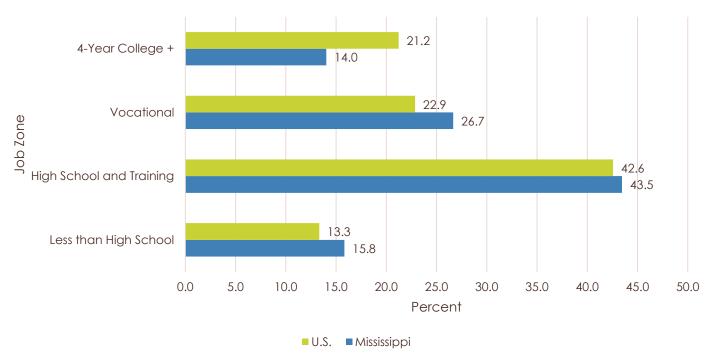
## **APPENDIX I: MIDDLE-SKILL JOBS**



Source: BLS, 2014.

# APPENDIX J: MISSISSIPPI VERSUS NATIONAL EDUCATION LEVELS

Percent of Jobs by Job Zone: State vs. Nation



Source: BLS, 2014.

# APPENDIX K: MANUFACTURING JOB POSTINGS<sup>1</sup>

osoc	December 1997	Job	Median	Education Lavel
CODE	Description	Openings	Hourly	Education_Level
			Earnings	
Manage	ment Occupations	92	\$28.84	
113051	Industrial Production Managers	45	\$37.05	Bachelor's degree
111021	General and Operations Managers	38	\$39.67	Bachelor's degree
119013	Farmers, Ranchers, and Other Agricultural Managers	4	\$18.97	High school diploma or equivalent
119051	Food Service Managers	4	\$22.42	High school diploma or equivalent
112031	Public Relations and Fundraising Managers	1	\$33.58	Bachelor's degree
113011	Administrative Services Managers	1	\$26.08	Bachelor's degree
Rusiness	/Financial Occupations	13	\$26.09	
	•			I Park and a selection of the land
131022	Wholesale and Retail Buyers, Except Farm Products	10	\$27.15	High school diploma or equivalent
131031	Claims Adjusters, Examiners, and Investigators  Business Operations Specialists, All Other	1	\$28.68	High school diploma or equivalent
131199		1	\$29.54	High school diploma or equivalent
132081	Tax Examiners and Collectors, and Revenue Agents		\$18.98	Bachelor's degree
Compute	er/Mathematical Occupations	5	\$18.57	
151151	Computer User Support Specialists	5	\$18.57	Some college, no degree
Engineer	ing Occupations	151	\$23.50	
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173026	Industrial Engineering Technicians	47	\$22.24	Associate's degree
173023	Electrical and Electronics Engineering Technicians	35	\$26.32	Associate's degree
173024	Electro-Mechanical Technicians	26	\$25.91	Associate's degree
173029	Engineering Technicians, Except Drafters, All Other	20	\$27.16	Associate's degree
173013	Mechanical Drafters	10	\$22.76	Associate's degree
173027	Mechanical Engineering Technicians	9	\$25.05	Associate's degree
173012	Electrical and Electronics Drafters	2	\$25.12	Associate's degree
173011	Architectural and Civil Drafters	1	\$20.67	Associate's degree
173022	Civil Engineering Technicians	1	\$16.28	Associate's degree
Life/Phys	ical/Social Science Occupations	12	\$18.31	
194031	Chemical Technicians	12	\$18.31	Associate's degree
	Media Occupations	3	\$15.74	
	•			
274011	Audio and Video Equipment Technicians	1	\$15.65	Postsecondary non-degree award
274014	Sound Engineering Technicians	1	\$18.41	Postsecondary non-degree award
274021	Photographers	1	\$13.17	High school diploma or equivalent
Healthco	are Occupations	67	\$16.35	
311014	Nursing Assistants	42	\$9.91	Postsecondary non-degree award
319099	Healthcare Support Workers, All Other	10	\$22.63	High school diploma or equivalent
292052	Pharmacy Technicians	4	\$12.65	High school diploma or equivalent
292061	Licensed Practical and Licensed Vocational Nurses	3	\$17.05	Postsecondary non-degree award
292041	Emergency Medical Technicians and Paramedics	2	\$14.11	Postsecondary non-degree award
299012	Occupational Health and Safety Technicians	2	\$18.02	High school diploma or equivalent
291141	Registered Nurses	1	\$27.52	Associate's degree
292055	Surgical Technologists	1	\$15.78	Postsecondary non-degree award
292081	Opticians, Dispensing	1	\$13.21	High school diploma or equivalent
319092	Medical Assistants	1	\$12.65	Postsecondary non-degree award
Food Pre	paration/Serving Occupations	1	\$12.06	
				High sales abdished to the control of
	First-Line Supervisors of Food Preparation and Serving Workers		\$12.06	High school diploma or equivalent
Building/	Grounds Cleaning/Maintenance Occupations	10	\$15.21	
	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping			
371012	Workers	6	\$18.86	High school diploma or equivalent
371011	First-Line Supervisors of Housekeeping and Janitorial Workers	3	\$13.99	High school diploma or equivalent
372021	Pest Control Workers	1	\$12.77	High school diploma or equivalent
	cupations	14	\$18.71	
	•			
413011	Advertising Sales Agents	8	\$15.55	High school diploma or equivalent
411011	First-Line Supervisors of Retail Sales Workers	4	\$17.02	High school diploma or equivalent
419091	Door-to-Door Sales Workers, News and Street Vendors, and Related Workers	2	\$23.56	High school diploma or equivalent
Office/A	dministrative Support Occupations	464	\$14.71	
435061	Production, Planning, and Expediting Clerks	122	\$19.48	High school diploma or equivalent
435071	Shipping, Receiving, and Traffic Clerks	101	\$13.11	High school diploma or equivalent
434051	Customer Service Representatives	68	\$12.83	High school diploma or equivalent
433031	Bookkeeping, Accounting, and Auditing Clerks	33	\$15.31	High school diploma or equivalent
436014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	22	\$13.32	High school diploma or equivalent
434071	File Clerks	20	\$10.94	High school diploma or equivalent
436011	Executive Secretaries and Executive Administrative Assistants	15	\$18.15	High school diploma or equivalent

<sup>&</sup>lt;sup>1</sup> Job Openings from MDES 2015

4200/1	Office Clean Consul	1.4	¢10.70	Ultrate and an all altra to account of the land
439061 434171	Office Clerks, General  Receptionists and Information Clerks	14	\$10.63 \$11.14	High school diploma or equivalent High school diploma or equivalent
434171	Human Resources Assistants, Except Payroll and Timekeeping	10	\$16.99	High school diploma or equivalent
434161	Billing and Posting Clerks	7	\$14.15	High school diploma or equivalent
433021	Payroll and Timekeeping Clerks	7	\$14.13	High school diploma or equivalent
439021	Data Entry Keyers	7	\$13.77	High school diploma or equivalent
435032	Dispatchers, Except Police, Fire, and Ambulance	5	\$15.21	High school diploma or equivalent
433061	Procurement Clerks	4	\$18.37	High school diploma or equivalent
434121	Library Assistants, Clerical	3	\$9.42	High school diploma or equivalent
439011	Computer Operators	3	\$16.34	High school diploma or equivalent
431011	First-Line Supervisors of Office and Administrative Support Workers	2	\$20.59	High school diploma or equivalent
432011	Switchboard Operators, Including Answering Service	2	\$11.80	High school diploma or equivalent
433011	Bill and Account Collectors	2	\$13.85	High school diploma or equivalent
435111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	2	\$13.17	High school diploma or equivalent
434141	New Accounts Clerks	1	\$13.57	High school diploma or equivalent
434151	Order Clerks	1	\$13.27	High school diploma or equivalent
435051	Postal Service Clerks	1	\$25.68	High school diploma or equivalent
439071	Office Machine Operators, Except Computer	1	\$12.89	High school diploma or equivalent
	/Fishing/Forestry Occupations	58	\$20.26	
454011	Forest and Conservation Workers	40	\$18.45	High school diploma or equivalent
451011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	18	\$22.07	High school diploma or equivalent
Construc	ction Occupations	916	\$19.00	
472111	Electricians	335	\$21.50	High school diploma or equivalent
472152	Plumbers, Pipefitters, and Steamfitters	237	\$18.48	High school diploma or equivalent
472211	Sheet Metal Workers	74	\$17.37	High school diploma or equivalent
473015	HelpersPipelayers, Plumbers, Pipefitters, and Steamfitters	72	\$11.65	High school diploma or equivalent
472221	Structural Iron and Steel Workers	59	\$19.83	High school diploma or equivalent
474099	Construction and Related Workers, All Other	24	\$29.82	High school diploma or equivalent
472171	Reinforcing Iron and Rebar Workers	19	\$17.07	High school diploma or equivalent
473013	HelpersElectricians	18	\$12.20	High school diploma or equivalent
472011	Boilermakers	17	\$21.88	High school diploma or equivalent
472031	Carpenters	17	\$16.44	High school diploma or equivalent
472071	Paving, Surfacing, and Tamping Equipment Operators	17	\$13.59	High school diploma or equivalent
472132	Insulation Workers, Mechanical	10	\$15.91	High school diploma or equivalent
475031	Explosives Workers, Ordnance Handling Experts, and Blasters	7	\$32.27	High school diploma or equivalent
472073	Operating Engineers and Other Construction Equipment Operators	4	\$16.12	High school diploma or equivalent
471011	First-Line Supervisors of Construction Trades and Extraction Workers	3	\$24.24	High school diploma or equivalent
474011	Construction and Building Inspectors	2	\$21.40	High school diploma or equivalent
		1,032	\$19.53	
Installation	on/Maintenance/Repair Occupations	1,032	\$19.53	
Installation	on/Maintenance/Repair Occupations  Maintenance and Repair Workers, General	249	\$13.40	High school diploma or equivalent
Installation 499071 499043	on/Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Maintenance Workers, Machinery	249 160	\$13.40 \$18.83	High school diploma or equivalent High school diploma or equivalent
Installation 499071 499043 499041	on/Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Maintenance Workers, Machinery  Industrial Machinery Mechanics	249 160 134	\$13.40 \$18.83 \$22.43	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent
Installation 499071 499043 499041 492094	on/Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Maintenance Workers, Machinery Industrial Machinery Mechanics Electrical and Electronics Repairers, Commercial and Industrial Equipment	249 160 134 115	\$13.40 \$18.83 \$22.43 \$19.00	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award
Installation 499071 499043 499041 492094 499099	on/Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Maintenance Workers, Machinery  Industrial Machinery Mechanics  Electrical and Electronics Repairers, Commercial and Industrial Equipment Installation, Maintenance, and Repair Workers, All Other	249 160 134 115 104	\$13.40 \$18.83 \$22.43 \$19.00 \$20.94	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent
Installation 499071 499043 499041 492094 499099	on/Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Maintenance Workers, Machinery Industrial Machinery Mechanics Electrical and Electronics Repairers, Commercial and Industrial Equipment Installation, Maintenance, and Repair Workers, All Other Riggers	249 160 134 115 104 70	\$13.40 \$18.83 \$22.43 \$19.00 \$20.94 \$30.03	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent High school diploma or equivalent
Installation 499071 499043 499041 492094 499099 499096 493031	on/Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Maintenance Workers, Machinery Industrial Machinery Mechanics Electrical and Electronics Repairers, Commercial and Industrial Equipment Installation, Maintenance, and Repair Workers, All Other Riggers Bus and Truck Mechanics and Diesel Engine Specialists	249 160 134 115 104 70 41	\$13.40 \$18.83 \$22.43 \$19.00 \$20.94 \$30.03 \$16.99	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent
499071 499043 499041 492094 499099 499096 493031 499098	on/Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Maintenance Workers, Machinery  Industrial Machinery Mechanics  Electrical and Electronics Repairers, Commercial and Industrial Equipment  Installation, Maintenance, and Repair Workers, All Other  Riggers  Bus and Truck Mechanics and Diesel Engine Specialists  Helpers—Installation, Maintenance, and Repair Workers	249 160 134 115 104 70 41 33	\$13.40 \$18.83 \$22.43 \$19.00 \$20.94 \$30.03 \$16.99 \$11.93	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent
Installation 499071 499043 499041 492094 499099 499096 493031 499098 491011	Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Maintenance Workers, Machinery Industrial Machinery Mechanics Electrical and Electronics Repairers, Commercial and Industrial Equipment Installation, Maintenance, and Repair Workers, All Other Riggers Bus and Truck Mechanics and Diesel Engine Specialists HelpersInstallation, Maintenance, and Repair Workers First-Line Supervisors of Mechanics, Installers, and Repairers	249 160 134 115 104 70 41 33 30	\$13.40 \$18.83 \$22.43 \$19.00 \$20.94 \$30.03 \$16.99 \$11.93 \$25.46	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent
Installation 499071 499043 499041 492094 499099 499096 493031 499098 491011 493023	Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Maintenance Workers, Machinery Industrial Machinery Mechanics Electrical and Electronics Repairers, Commercial and Industrial Equipment Installation, Maintenance, and Repair Workers, All Other Riggers Bus and Truck Mechanics and Diesel Engine Specialists HelpersInstallation, Maintenance, and Repair Workers First-Line Supervisors of Mechanics, Installers, and Repairers Automotive Service Technicians and Mechanics	249 160 134 115 104 70 41 33 30 28	\$13.40 \$18.83 \$22.43 \$19.00 \$20.94 \$30.03 \$16.99 \$11.93 \$25.46 \$15.25	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent
Installation 499071 499043 499041 492094 499099 499096 493031 499098 491011 493023 493042	Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Maintenance Workers, Machinery Industrial Machinery Mechanics Electrical and Electronics Repairers, Commercial and Industrial Equipment Installation, Maintenance, and Repair Workers, All Other Riggers Bus and Truck Mechanics and Diesel Engine Specialists HelpersInstallation, Maintenance, and Repair Workers First-Line Supervisors of Mechanics, Installers, and Repairers Automotive Service Technicians and Mechanics Mobile Heavy Equipment Mechanics, Except Engines	249 160 134 115 104 70 41 33 30	\$13.40 \$18.83 \$22.43 \$19.00 \$20.94 \$30.03 \$16.99 \$11.93 \$25.46 \$15.25 \$18.97	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent
Installation 499071 499043 499041 492094 499099 499096 493031 499098 491011 493023	on/Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Maintenance Workers, Machinery Industrial Machinery Mechanics Electrical and Electronics Repairers, Commercial and Industrial Equipment Installation, Maintenance, and Repair Workers, All Other Riggers Bus and Truck Mechanics and Diesel Engine Specialists HelpersInstallation, Maintenance, and Repair Workers First-Line Supervisors of Mechanics, Installers, and Repairers Automotive Service Technicians and Mechanics Mobile Heavy Equipment Mechanics, Except Engines Millwrights	249 160 134 115 104 70 41 33 30 28 22	\$13.40 \$18.83 \$22.43 \$19.00 \$20.94 \$30.03 \$16.99 \$11.93 \$25.46 \$15.25	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent
Installation 499071 499043 499041 492094 499099 499096 493031 499098 491011 493023 493042 499044	Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Maintenance Workers, Machinery Industrial Machinery Mechanics Electrical and Electronics Repairers, Commercial and Industrial Equipment Installation, Maintenance, and Repair Workers, All Other Riggers Bus and Truck Mechanics and Diesel Engine Specialists HelpersInstallation, Maintenance, and Repair Workers First-Line Supervisors of Mechanics, Installers, and Repairers Automotive Service Technicians and Mechanics Mobile Heavy Equipment Mechanics, Except Engines	249 160 134 115 104 70 41 33 30 28 22 14	\$13.40 \$18.83 \$22.43 \$19.00 \$20.94 \$30.03 \$16.99 \$11.93 \$25.46 \$15.25 \$18.97	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent
Installation 499071 499043 499041 492094 499099 499096 493031 499098 491011 493023 493042 499044 499021	on/Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Maintenance Workers, Machinery Industrial Machinery Mechanics Electrical and Electronics Repairers, Commercial and Industrial Equipment Installation, Maintenance, and Repair Workers, All Other Riggers Bus and Truck Mechanics and Diesel Engine Specialists HelpersInstallation, Maintenance, and Repair Workers First-Line Supervisors of Mechanics, Installers, and Repairers Automotive Service Technicians and Mechanics Mobile Heavy Equipment Mechanics, Except Engines Millwrights Heating, Air Conditioning, and Refrigeration Mechanics and Installers	249 160 134 115 104 70 41 33 30 28 22 14	\$13.40 \$18.83 \$22.43 \$19.00 \$20.94 \$30.03 \$16.99 \$11.93 \$25.46 \$15.25 \$18.97 \$20.58	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Pigh school diploma or equivalent
Installation 499071 499043 499041 492094 499099 499096 493031 499098 491011 493023 493042 499044 499021	on/Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Maintenance Workers, Machinery Industrial Machinery Mechanics Electrical and Electronics Repairers, Commercial and Industrial Equipment Installation, Maintenance, and Repair Workers, All Other Riggers Bus and Truck Mechanics and Diesel Engine Specialists HelpersInstallation, Maintenance, and Repair Workers First-Line Supervisors of Mechanics, Installers, and Repairers Automotive Service Technicians and Mechanics Mobile Heavy Equipment Mechanics, Except Engines Millwrights Heating, Air Conditioning, and Refrigeration Mechanics and Installers Automotive Body and Related Repairers	249 160 134 115 104 70 41 33 30 28 22 14 6	\$13.40 \$18.83 \$22.43 \$19.00 \$20.94 \$30.03 \$16.99 \$11.93 \$25.46 \$15.25 \$18.97 \$20.58 \$16.89 \$15.09	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent
Installation 499071 499043 499041 492094 499099 499096 493031 499098 491011 493023 493042 499044 499021 493021	Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Maintenance Workers, Machinery Industrial Machinery Mechanics Electrical and Electronics Repairers, Commercial and Industrial Equipment Installation, Maintenance, and Repair Workers, All Other Riggers Bus and Truck Mechanics and Diesel Engine Specialists Helpers-Installation, Maintenance, and Repair Workers First-Line Supervisors of Mechanics, Installers, and Repairers Automotive Service Technicians and Mechanics Möbile Heavy Equipment Mechanics, Except Engines Millwrights Heating, Air Conditioning, and Refrigeration Mechanics and Installers Automotive Body and Related Repairers Telecommunications Line Installers and Repairers	249 160 134 115 104 70 41 33 30 28 22 14 6 5 4	\$13.40 \$18.83 \$22.43 \$19.00 \$20.94 \$30.03 \$16.99 \$11.93 \$25.46 \$15.25 \$18.97 \$20.58 \$16.89 \$15.09 \$19.38 \$25.43	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent High school diploma or equivalent
Installation 499071 499043 499041 492094 499099 499096 493031 499098 491011 493023 493042 499044 499021 493021 499052 492093	Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Maintenance Workers, Machinery Industrial Machinery Mechanics  Electrical and Electronics Repairers, Commercial and Industrial Equipment Installation, Maintenance, and Repair Workers, All Other Riggers  Bus and Truck Mechanics and Diesel Engine Specialists Helpers—Installation, Maintenance, and Repair Workers First-Line Supervisors of Mechanics, Installers, and Repairers Automotive Service Technicians and Mechanics Mobile Heavy Equipment Mechanics, Except Engines Millwrights Heating, Air Conditioning, and Refrigeration Mechanics and Installers Automotive Body and Related Repairers Telecommunications Line Installers and Repairers, Transportation Equipment	249 160 134 115 104 70 41 33 30 28 22 14 6 5 4 3 3 3 3 3	\$13.40 \$18.83 \$22.43 \$19.00 \$20.94 \$30.03 \$16.99 \$11.93 \$25.46 \$15.25 \$18.97 \$20.58 \$16.89 \$15.09	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award Postsecondary non-degree award
Installation 499071 499043 499094 499099 499096 493031 499098 491011 493023 493042 499044 499021 499052 492093 493041 493053 493011	Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Maintenance Workers, Machinery  Industrial Machinery Mechanics  Electrical and Electronics Repairers, Commercial and Industrial Equipment Installation, Maintenance, and Repair Workers, All Other Riggers  Bus and Truck Mechanics and Diesel Engine Specialists  HelpersInstallation, Maintenance, and Repair Workers  First-Line Supervisors of Mechanics, Installers, and Repairers  Automotive Service Technicians and Mechanics  Mobile Heavy Equipment Mechanics, Except Engines  Millwrights  Heating, Air Conditioning, and Refrigeration Mechanics and Installers  Automotive Body and Related Repairers  Telecommunications Line Installers and Repairers  Electrical and Electronics Installers and Repairers, Transportation Equipment Farm Equipment Mechanics and Service Technicians  Outdoor Power Equipment and Other Small Engine Mechanics  Aircraft Mechanics and Service Technicians	249 160 134 115 104 70 41 33 30 28 22 14 6 5 4 3 3 3 3 2	\$13.40 \$18.83 \$22.43 \$19.00 \$20.94 \$30.03 \$16.99 \$11.93 \$25.46 \$15.25 \$18.97 \$20.58 \$16.89 \$15.09 \$19.38 \$25.43 \$16.17 \$13.78	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Postsecondary non-degree award
Installation 499071 499043 499041 492094 499099 499096 493031 499098 491011 493023 493042 499044 499021 493021 499052 492093 493041 493053 493041 493091	Maintenance/Repair Occupations  Maintenance and Repair Workers, General Maintenance Workers, Machinery Industrial Machinery Mechanics Electrical and Electronics Repairers, Commercial and Industrial Equipment Installation, Maintenance, and Repair Workers, All Other Riggers Bus and Truck Mechanics and Diesel Engine Specialists HelpersInstallation, Maintenance, and Repair Workers First-Line Supervisors of Mechanics, Installers, and Repairers Automotive Service Technicians and Mechanics Mobile Heavy Equipment Mechanics, Except Engines Millwrights Heating, Air Conditioning, and Refrigeration Mechanics and Installers Automotive Body and Related Repairers Telecommunications Line Installers and Repairers Electrical and Electronics Installers and Repairers, Transportation Equipment Farm Equipment Mechanics and Service Technicians Outdoor Power Equipment and Other Small Engine Mechanics Aircraft Mechanics and Service Technicians Bicycle Repairers	249 160 134 115 104 70 41 33 30 28 22 14 6 5 4 3 3 3 3 2 2 2	\$13.40 \$18.83 \$22.43 \$19.00 \$20.94 \$30.03 \$16.99 \$11.93 \$25.46 \$15.25 \$18.97 \$20.58 \$16.89 \$15.09 \$19.38 \$25.43 \$16.17 \$13.78 \$24.63 \$14.88	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent
Installation 499071 499043 499041 492094 499099 499096 493031 499098 491011 493023 493042 499044 499021 493021 499052 492093 493041 493053 493011 493091	Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Maintenance Workers, Machinery Industrial Machinery Mechanics Electrical and Electronics Repairers, Commercial and Industrial Equipment Installation, Maintenance, and Repair Workers, All Other Riggers Bus and Truck Mechanics and Diesel Engine Specialists HelpersInstallation, Maintenance, and Repair Workers First-Line Supervisors of Mechanics, Installers, and Repairers Automotive Service Technicians and Mechanics Mobile Heavy Equipment Mechanics, Except Engines Millwrights Heating, Air Conditioning, and Refrigeration Mechanics and Installers Automotive Body and Related Repairers Telecommunications Line Installers and Repairers Electrical and Electronics Installers and Repairers, Transportation Equipment Farm Equipment Mechanics and Service Technicians Outdoor Power Equipment and Other Small Engine Mechanics Bicycle Repairers Electronic Equipment Installers and Repairers, Motor Vehicles	249 160 134 115 104 70 41 33 30 28 22 14 6 5 4 3 3 3 2 2 1	\$13.40 \$18.83 \$22.43 \$19.00 \$20.94 \$30.03 \$16.99 \$11.93 \$25.46 \$15.25 \$18.97 \$20.58 \$16.89 \$15.09 \$19.38 \$25.43 \$16.17 \$13.78 \$24.63 \$14.88 \$15.62	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Postsecondary non-degree award
Installation 499071 499043 499041 499099 499096 493031 499098 491011 493023 493042 499044 499021 493021 499052 492093 493041 493053 493011 493091 492096	Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Maintenance Workers, Machinery Industrial Machinery Mechanics Electrical and Electronics Repairers, Commercial and Industrial Equipment Installation, Maintenance, and Repair Workers, All Other Riggers Bus and Truck Mechanics and Diesel Engine Specialists HelpersInstallation, Maintenance, and Repair Workers First-Line Supervisors of Mechanics, Installers, and Repairers Automotive Service Technicians and Mechanics Mobile Heavy Equipment Mechanics, Except Engines Millwrights Heating, Air Conditioning, and Refrigeration Mechanics and Installers Automotive Body and Related Repairers Telecommunications Line Installers and Repairers Electrical and Electronics Installers and Repairers, Transportation Equipment Farm Equipment Mechanics and Service Technicians Outdoor Power Equipment and Other Small Engine Mechanics Aircraft Mechanics and Service Technicians Bicycle Repairers Electronic Equipment Installers and Repairers, Motor Vehicles Motorboat Mechanics and Service Technicians	249 160 134 115 104 70 41 33 30 28 22 14 6 5 4 3 3 3 2 2 1 1	\$13.40 \$18.83 \$22.43 \$19.00 \$20.94 \$30.03 \$16.99 \$11.93 \$25.46 \$15.25 \$18.97 \$20.58 \$16.89 \$15.09 \$19.38 \$25.43 \$16.17 \$13.78 \$24.63 \$14.88 \$15.62 \$19.13	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent
Installation 499071 499043 499041 492094 499099 499096 493031 499098 491011 493023 493042 499044 499021 493021 499052 492093 493041 493053 493041 493053 493051 493091 492096	Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Maintenance Workers, Machinery Industrial Machinery Mechanics Electrical and Electronics Repairers, Commercial and Industrial Equipment Installation, Maintenance, and Repair Workers, All Other Riggers Bus and Truck Mechanics and Diesel Engine Specialists Helpers-Installation, Maintenance, and Repair Workers First-Line Supervisors of Mechanics, Installers, and Repairers Automotive Service Technicians and Mechanics Mobile Heavy Equipment Mechanics, Except Engines Millwrights Heating, Air Conditioning, and Refrigeration Mechanics and Installers Automotive Body and Related Repairers Telecommunications Line Installers and Repairers Electrical and Electronics Installers and Repairers, Transportation Equipment Farm Equipment Mechanics and Service Technicians Outdoor Power Equipment and Other Small Engine Mechanics Bicycle Repairers Electronic Equipment Installers and Repairers, Motor Vehicles Motorboat Mechanics and Service Technicians Control and Valve Installers and Repairers, Except Mechanical Door	249 160 134 115 104 70 41 33 30 28 22 14 6 5 4 3 3 3 2 2 1 1 1	\$13.40 \$18.83 \$22.43 \$19.00 \$20.94 \$30.03 \$16.99 \$11.93 \$25.46 \$15.25 \$18.97 \$20.58 \$16.89 \$15.09 \$19.38 \$25.43 \$16.17 \$13.78 \$24.63 \$14.88 \$15.62 \$19.13	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent
Installation 499071 499043 499041 499099 499096 493031 499098 491011 493023 493042 499044 499021 493021 499052 492093 493041 493053 493011 493091 492096	Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Maintenance Workers, Machinery Industrial Machinery Mechanics Electrical and Electronics Repairers, Commercial and Industrial Equipment Installation, Maintenance, and Repair Workers, All Other Riggers Bus and Truck Mechanics and Diesel Engine Specialists HelpersInstallation, Maintenance, and Repair Workers First-Line Supervisors of Mechanics, Installers, and Repairers Automotive Service Technicians and Mechanics Mobile Heavy Equipment Mechanics, Except Engines Millwrights Heating, Air Conditioning, and Refrigeration Mechanics and Installers Automotive Body and Related Repairers Telecommunications Line Installers and Repairers Electrical and Electronics Installers and Repairers, Transportation Equipment Farm Equipment Mechanics and Service Technicians Outdoor Power Equipment and Other Small Engine Mechanics Aircraft Mechanics and Service Technicians Bicycle Repairers Electronic Equipment Installers and Repairers, Motor Vehicles Motorboat Mechanics and Service Technicians	249 160 134 115 104 70 41 33 30 28 22 14 6 5 4 3 3 3 2 2 1 1	\$13.40 \$18.83 \$22.43 \$19.00 \$20.94 \$30.03 \$16.99 \$11.93 \$25.46 \$15.25 \$18.97 \$20.58 \$16.89 \$15.09 \$19.38 \$25.43 \$16.17 \$13.78 \$24.63 \$14.88 \$15.62 \$19.13	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent
Installation 499071 499043 499041 499099 499096 493031 499098 491011 493023 493042 499044 499021 493021 499052 492093 493041 493053 493011 493091 493091 493091 499081	Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Maintenance Workers, Machinery Industrial Machinery Mechanics Electrical and Electronics Repairers, Commercial and Industrial Equipment Installation, Maintenance, and Repair Workers, All Other Riggers Bus and Truck Mechanics and Diesel Engine Specialists Helpers-Installation, Maintenance, and Repair Workers First-Line Supervisors of Mechanics, Installers, and Repairers Automotive Service Technicians and Mechanics Mobile Heavy Equipment Mechanics, Except Engines Millwrights Heating, Air Conditioning, and Refrigeration Mechanics and Installers Automotive Body and Related Repairers Telecommunications Line Installers and Repairers Electrical and Electronics Installers and Repairers, Transportation Equipment Farm Equipment Mechanics and Service Technicians Outdoor Power Equipment and Other Small Engine Mechanics Bicycle Repairers Electronic Equipment Installers and Repairers, Motor Vehicles Motorboat Mechanics and Service Technicians Control and Valve Installers and Repairers, Except Mechanical Door	249 160 134 115 104 70 41 33 30 28 22 14 6 5 4 3 3 3 2 2 1 1 1	\$13.40 \$18.83 \$22.43 \$19.00 \$20.94 \$30.03 \$16.99 \$11.93 \$25.46 \$15.25 \$18.97 \$20.58 \$16.89 \$15.09 \$19.38 \$25.43 \$16.17 \$13.78 \$24.63 \$14.88 \$15.62 \$19.13	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent
Installation 499071 499043 499041 492094 499099 499096 493031 499098 491011 493023 493042 499044 499021 493021 499052 492093 493051 493051 493051 499081 Production	Maintenance/Repair Occupations  Maintenance and Repair Workers, General Maintenance Workers, Machinery Industrial Machinery Mechanics Electrical and Electronics Repairers, Commercial and Industrial Equipment Installation, Maintenance, and Repair Workers, All Other Riggers Bus and Truck Mechanics and Diesel Engine Specialists HelpersInstallation, Maintenance, and Repair Workers First-Line Supervisors of Mechanics, Installers, and Repairers Automotive Service Technicians and Mechanics Mobile Heavy Equipment Mechanics, Except Engines Millwrights Heating, Air Conditioning, and Refrigeration Mechanics and Installers Automotive Body and Related Repairers Telecommunications Line Installers and Repairers Electrical and Electronics Installers and Repairers, Transportation Equipment Farm Equipment Mechanics and Service Technicians Outdoor Power Equipment and Other Small Engine Mechanics Aircraft Mechanics and Service Technicians Bicycle Repairers Electronic Equipment Installers and Repairers, Motor Vehicles Motorboat Mechanics and Service Technicians Control and Valve Installers and Repairers, Except Mechanical Door Wind Turbine Service Technicians	249 160 134 115 104 70 41 33 30 28 22 14 6 5 4 3 3 3 2 2 1 1 1 6,220	\$13.40 \$18.83 \$22.43 \$19.00 \$20.94 \$30.03 \$16.99 \$11.93 \$25.46 \$15.25 \$18.97 \$20.58 \$16.89 \$15.09 \$19.38 \$25.43 \$16.17 \$13.78 \$24.63 \$14.88 \$15.62 \$19.13 \$17.31 \$36.61	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Some college, no degree
Installation 499071 499043 499041 499099 499096 493031 499098 491011 493023 493042 499044 499021 493021 499052 492093 493041 493053 493011 493091 493091 499012 499081 Production	Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Maintenance Workers, Machinery Industrial Machinery Mechanics Electrical and Electronics Repairers, Commercial and Industrial Equipment Installation, Maintenance, and Repair Workers, All Other Riggers Bus and Truck Mechanics and Diesel Engine Specialists HelpersInstallation, Maintenance, and Repair Workers First-Line Supervisors of Mechanics, Installers, and Repairers Automotive Service Technicians and Mechanics Mobile Heavy Equipment Mechanics, Except Engines Millwrights Heating, Air Conditioning, and Refrigeration Mechanics and Installers Automotive Body and Related Repairers Telecommunications Line Installers and Repairers Electrical and Electronics Installers and Repairers, Transportation Equipment Farm Equipment Mechanics and Service Technicians Outdoor Power Equipment and Other Small Engine Mechanics Aircraft Mechanics and Service Technicians Bicycle Repairers Electronic Equipment Installers and Repairers, Motor Vehicles Motorboat Mechanics and Service Technicians Control and Valve Installers and Repairers, Except Mechanical Door Wind Turbine Service Technicians  Welders, Cutters, Solderers, and Brazers	249 160 134 115 104 70 41 33 30 28 22 14 6 5 4 3 3 3 2 2 1 1 1 1 6,220 1,599	\$13.40 \$18.83 \$22.43 \$19.00 \$20.94 \$30.03 \$16.99 \$11.93 \$25.46 \$15.25 \$18.97 \$20.58 \$16.89 \$15.09 \$19.38 \$25.43 \$16.17 \$13.78 \$24.63 \$14.88 \$15.62 \$19.13 \$17.31 \$36.61 \$16.99 \$18.72	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent
Installation 499071 499043 499041 499099 499096 493031 499098 491011 493023 493042 499044 499021 493021 493021 499052 492093 493041 493053 493011 493091 492096 493051 499081 Production	Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Maintenance Workers, Machinery Industrial Machinery Mechanics Electrical and Electronics Repairers, Commercial and Industrial Equipment Installation, Maintenance, and Repair Workers, All Other Riggers Bus and Truck Mechanics and Diesel Engine Specialists HelpersInstallation, Maintenance, and Repair Workers First-Line Supervisors of Mechanics, Installers, and Repairers Automotive Service Technicians and Mechanics Mobile Heavy Equipment Mechanics, Except Engines Millwrights Heating, Air Conditioning, and Refrigeration Mechanics and Installers Automotive Body and Related Repairers Telecommunications Line Installers and Repairers Electrical and Electronics Installers and Repairers, Transportation Equipment Farm Equipment Mechanics and Service Technicians Outdoor Power Equipment and Other Small Engine Mechanics Aircraft Mechanics and Service Technicians Electronic Equipment Installers and Repairers, Motor Vehicles Motorboat Mechanics and Service Technicians Control and Valve Installers and Repairers, Except Mechanical Door Wind Turbine Service Technicians  Welders, Cutters, Solderers, and Brazers Structural Metal Fabricators and Fitters	249 160 134 115 104 70 41 33 30 28 22 14 6 5 4 3 3 3 2 2 1 1 1 1 6,220 1,599 747	\$13.40 \$18.83 \$22.43 \$19.00 \$20.94 \$30.03 \$16.99 \$11.93 \$25.46 \$15.25 \$18.97 \$20.58 \$16.89 \$15.09 \$19.38 \$25.43 \$16.17 \$13.78 \$24.63 \$14.88 \$15.62 \$19.13 \$17.31 \$36.61 \$16.93 \$18.72 \$17.42	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent
Installation 499071 499043 499041 492094 499099 499096 493031 499098 491011 493023 493042 499044 499021 493021 499052 492093 493041 493053 493011 493091 492096 493051 499081 Production	Maintenance/Repair Occupations  Maintenance and Repair Workers, General Maintenance Workers, Machinery Industrial Machinery Mechanics Electrical and Electronics Repairers, Commercial and Industrial Equipment Installation, Maintenance, and Repair Workers, All Other Riggers Bus and Truck Mechanics and Diesel Engine Specialists HelpersInstallation, Maintenance, and Repair Workers First-Line Supervisors of Mechanics, Installers, and Repairers Automotive Service Technicians and Mechanics Mobile Heavy Equipment Mechanics, Except Engines Millwrights Heating, Air Conditioning, and Refrigeration Mechanics and Installers Automotive Body and Related Repairers Telecommunications Line Installers and Repairers Electrical and Electronics Installers and Repairers, Transportation Equipment Farm Equipment Mechanics and Service Technicians Outdoor Power Equipment and Other Small Engine Mechanics Aircraft Mechanics and Service Technicians Bicycle Repairers Electronic Equipment Installers and Repairers, Motor Vehicles Motorboat Mechanics and Service Technicians Control and Valve Installers and Repairers, Except Mechanical Door Wind Turbine Service Technicians  Welders, Cutters, Solderers, and Brazers Structural Metal Fabricators and Fitters Upholsterers	249 160 134 115 104 70 41 33 30 28 22 14 6 5 4 3 3 3 2 2 1 1 1 1 6,220 1,599 747 589	\$13.40 \$18.83 \$22.43 \$19.00 \$20.94 \$30.03 \$16.99 \$11.93 \$25.46 \$15.25 \$18.97 \$20.58 \$16.89 \$15.09 \$19.38 \$25.43 \$16.17 \$13.78 \$24.63 \$14.88 \$15.62 \$19.13 \$17.31 \$36.61 \$16.93 \$18.72 \$17.42 \$15.60	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Some college, no degree
Installation 499071 499043 499041 492094 499099 499096 493031 499098 491011 493023 493042 499044 499021 493021 499052 492093 493041 493053 493011 493051 499012 499081 Production 514121 516093 512092	Maintenance/Repair Occupations  Maintenance and Repair Workers, General Maintenance Workers, Machinery Industrial Machinery Mechanics Electrical and Electronics Repairers, Commercial and Industrial Equipment Installation, Maintenance, and Repair Workers, All Other Riggers Bus and Truck Mechanics and Diesel Engine Specialists HelpersInstallation, Maintenance, and Repair Workers First-Line Supervisors of Mechanics, Installers, and Repairers Automotive Service Technicians and Mechanics Mobile Heavy Equipment Mechanics, Except Engines Millwrights Heating, Air Conditioning, and Refrigeration Mechanics and Installers Automotive Body and Related Repairers Telecommunications Line Installers and Repairers Electrical and Electronics Installers and Repairers, Transportation Equipment Farm Equipment Mechanics and Service Technicians Outdoor Power Equipment and Other Small Engine Mechanics Aircraft Mechanics and Service Technicians Bicycle Repairers Electronic Equipment Installers and Repairers, Motor Vehicles Motorboat Mechanics and Service Technicians Control and Valve Installers and Repairers, Except Mechanical Door Wind Turbine Service Technicians  Welders, Cutters, Solderers, and Brazers Structural Metal Fabricators and Fitters Upholsterers Team Assemblers	249 160 134 115 104 70 41 33 30 28 22 14 6 5 4 3 3 3 2 11 1 1 6,220 1,599 747 589 554	\$13.40 \$18.83 \$22.43 \$19.00 \$20.94 \$30.03 \$16.99 \$11.93 \$25.46 \$15.25 \$18.97 \$20.58 \$16.89 \$15.09 \$19.38 \$25.43 \$16.17 \$13.78 \$24.63 \$14.88 \$15.62 \$19.13 \$17.31 \$36.61 \$16.93 \$18.72 \$17.42 \$15.60 \$13.83	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent
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Installation 499071 499043 499041 492094 499099 499096 493031 499098 491011 493023 493042 499044 499021 493021 499052 492093 493041 493053 493011 493091 492096 493051 499012 499081 Production 514121 512041 514093 512092 517041 514041	Maintenance/Repair Occupations  Maintenance and Repair Workers, General Maintenance Workers, Machinery Industrial Machinery Mechanics Electrical and Electronics Repairers, Commercial and Industrial Equipment Installation, Maintenance, and Repair Workers, All Other Riggers Bus and Truck Mechanics and Diesel Engine Specialists Helpers-Installation, Maintenance, and Repair Workers First-Line Supervisors of Mechanics, Installers, and Repairers Automotive Service Technicians and Mechanics Mobile Heavy Equipment Mechanics, Except Engines Millwrights Heating, Air Conditioning, and Refrigeration Mechanics and Installers Automotive Body and Related Repairers Telecommunications Line Installers and Repairers, Transportation Equipment Fam Equipment Mechanics and Service Technicians Outdoor Power Equipment and Other Small Engine Mechanics Aircraft Mechanics and Service Technicians Bicycle Repairers Electronic Equipment Installers and Repairers, Motor Vehicles Motorboat Mechanics and Service Technicians Control and Valve Installers and Repairers, Except Mechanical Door Wind Turbine Service Technicians  Welders, Cutters, Solderers, and Brazers Structural Metal Fabricators and Fitters Upholsterers Team Assemblers Sawing Machine Setters, Operators, and Tenders, Wood Machinists	249 160 134 115 104 70 41 33 30 28 22 14 6 5 4 3 3 3 2 2 1 1 1 1 6,220 1,599 747 589 554 378 361	\$13.40 \$18.83 \$22.43 \$19.00 \$20.94 \$30.03 \$16.99 \$11.93 \$25.46 \$15.25 \$18.97 \$20.58 \$16.89 \$15.09 \$19.38 \$25.43 \$16.17 \$13.78 \$24.63 \$14.88 \$15.62 \$19.13 \$17.31 \$36.61 \$16.93 \$17.42	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent
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Installation 499071 499043 499041 492094 499099 499096 493031 499098 491011 493023 493042 499044 499021 493021 499052 492093 493041 493053 493011 493091 492096 493051 499012 499081 Production 514121 512041 514093 512092 517041 514041	Maintenance/Repair Occupations  Maintenance and Repair Workers, General Maintenance Workers, Machinery Industrial Machinery Mechanics Electrical and Electronics Repairers, Commercial and Industrial Equipment Installation, Maintenance, and Repair Workers, All Other Riggers Bus and Truck Mechanics and Diesel Engine Specialists Helpers-Installation, Maintenance, and Repair Workers First-Line Supervisors of Mechanics, Installers, and Repairers Automotive Service Technicians and Mechanics Mobile Heavy Equipment Mechanics, Except Engines Millwrights Heating, Air Conditioning, and Refrigeration Mechanics and Installers Automotive Body and Related Repairers Telecommunications Line Installers and Repairers, Transportation Equipment Fam Equipment Mechanics and Service Technicians Outdoor Power Equipment and Other Small Engine Mechanics Aircraft Mechanics and Service Technicians Bicycle Repairers Electronic Equipment Installers and Repairers, Motor Vehicles Motorboat Mechanics and Service Technicians Control and Valve Installers and Repairers, Except Mechanical Door Wind Turbine Service Technicians  Welders, Cutters, Solderers, and Brazers Structural Metal Fabricators and Fitters Upholsterers Team Assemblers Sawing Machine Setters, Operators, and Tenders, Wood Machinists	249 160 134 115 104 70 41 33 30 28 22 14 6 5 4 3 3 3 2 2 1 1 1 1 6,220 1,599 747 589 554 378 361	\$13.40 \$18.83 \$22.43 \$19.00 \$20.94 \$30.03 \$16.99 \$11.93 \$25.46 \$15.25 \$18.97 \$20.58 \$16.89 \$15.09 \$19.38 \$25.43 \$16.17 \$13.78 \$24.63 \$14.88 \$15.62 \$19.13 \$17.31 \$36.61 \$16.93 \$17.42	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent
Installation 499071 499043 499041 499099 499096 493031 499098 491011 493023 493042 499044 499021 493021 499052 492093 493041 493051 493051 493051 493051 493051 492096 493051 492096 514121 512041 516093 512092 517041 514041 511011 514022	Maintenance/Repair Occupations  Maintenance and Repair Workers, General Maintenance Workers, Machinery Industrial Machinery Mechanics Electrical and Electronics Repairers, Commercial and Industrial Equipment Installation, Maintenance, and Repair Workers, All Other Riggers Bus and Truck Mechanics and Diesel Engine Specialists HelpersInstallation, Maintenance, and Repair Workers First-Line Supervisors of Mechanics, Installers, and Repairers Automotive Service Technicians and Mechanics Mobile Heavy Equipment Mechanics, Except Engines Millwrights Heating, Air Conditioning, and Refrigeration Mechanics and Installers Automotive Body and Related Repairers Telecommunications Line Installers and Repairers, Transportation Equipment Farm Equipment Mechanics and Service Technicians Outdoor Power Equipment and Other Small Engine Mechanics Aircraft Mechanics and Service Technicians Bicycle Repairers Electronic Equipment Installers and Repairers, Motor Vehicles Motorboat Mechanics and Service Technicians Control and Valve Installers and Repairers, Except Mechanical Door Wind Turbine Service Technicians  On Occupations Welders, Cutters, Solderers, and Brazers Structural Metal Fabricators and Fitters Upholsterers Team Assemblers Sawing Machine Setters, Operators, and Tenders, Wood Machinists First-Line Supervisors of Production and Operating Workers Forging Machine Setters, Operators, and Tenders, Metal and Plastic	249 160 134 115 104 70 41 33 30 28 22 14 6 5 4 3 3 3 2 2 1 1 1 1 6,220 1,599 747 589 554 378 361 296 266	\$13.40 \$18.83 \$22.43 \$19.00 \$20.94 \$30.03 \$16.99 \$11.93 \$25.46 \$15.25 \$18.97 \$20.58 \$16.89 \$15.09 \$19.38 \$25.43 \$16.17 \$13.78 \$24.63 \$14.88 \$15.62 \$19.13 \$17.31 \$36.61 \$16.99 \$17.31 \$36.61 \$16.99 \$17.31 \$36.61 \$16.99 \$17.31 \$36.61 \$16.99 \$17.31 \$36.61 \$16.99 \$17.31 \$36.61 \$16.99 \$17.31 \$36.61 \$16.99 \$17.31 \$36.61 \$16.99 \$17.31 \$36.61 \$16.99 \$17.31 \$36.61 \$16.99 \$17.31 \$36.61 \$16.99 \$17.31 \$17.31 \$36.61 \$16.99 \$17.31 \$36.61 \$16.99 \$17.31 \$36.61 \$16.99 \$17.31 \$36.61 \$16.99 \$17.31 \$17.31 \$36.61 \$16.99 \$17.31 \$17.31 \$18.90 \$22.23 \$16.83	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent
Installation 499071 499043 499041 499094 499096 493031 499098 491011 493023 493042 499044 499021 493021 499052 492093 493041 493053 493041 493091 493091 493091 493091 514121 512041 516093 512092 517041 514021 514022 519061	Maintenance and Repair Workers, General Maintenance Workers, Machinery Industrial Machinery Mechanics Electrical and Electronics Repairers, Commercial and Industrial Equipment Installation, Maintenance, and Repair Workers, All Other Riggers Bus and Truck Mechanics and Diesel Engine Specialists Helpers—Installation, Maintenance, and Repair Workers First-Line Supervisors of Mechanics, Installers, and Repairers Automotive Service Technicians and Mechanics Mobile Heavy Equipment Mechanics, Except Engines Millwrights Heating, Air Conditioning, and Refrigeration Mechanics and Installers Automotive Body and Related Repairers Telecommunications Line Installers and Repairers Electrical and Electronics Installers and Repairers, Transportation Equipment Farm Equipment Mechanics and Service Technicians Outdoor Power Equipment and Other Small Engine Mechanics Aircraft Mechanics and Service Technicians Bicycle Repairers Electronic Equipment Installers and Repairers, Motor Vehicles Motorboat Mechanics and Service Technicians Control and Valve Installers and Repairers, Except Mechanical Door Wind Turbine Service Technicians  Welders, Cutters, Solderers, and Brazers Structural Metal Fabricators and Fitters Upholsterers Team Assemblers Sawing Machine Setters, Operators, and Tenders, Wood Machinists First-Line Supervisors of Production and Operating Workers Forging Machine Setters, Operators, and Tenders, Metal and Plastic Inspectors, Testers, Sorters, Samplers, and Weighers	249 160 134 115 104 70 41 33 30 28 22 14 6 5 4 3 3 3 2 2 11 1 1 6,220 1,599 747 589 554 378 361 296 266 261	\$13.40 \$18.83 \$22.43 \$19.00 \$20.94 \$30.03 \$16.99 \$11.93 \$25.46 \$15.25 \$18.97 \$20.58 \$16.89 \$15.09 \$19.38 \$25.43 \$16.17 \$13.78 \$24.63 \$14.88 \$15.62 \$19.13 \$17.31 \$36.61 \$16.99 \$17.31 \$36.61 \$16.99 \$17.31 \$36.61 \$16.99 \$17.31 \$36.61 \$16.99 \$17.31 \$36.61 \$16.99 \$17.31 \$36.61 \$16.99 \$17.31 \$36.61 \$16.99 \$17.31 \$36.61 \$16.99 \$17.31 \$36.61 \$16.99 \$17.31 \$36.61 \$16.99 \$17.42	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent

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519041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	101	\$12.71	High school diploma or equivalent
519191	Adhesive Bonding Machine Operators and Tenders	58	\$13.04	High school diploma or equivalent
519122	Painters, Transportation Equipment	55	\$18.40	High school diploma or equivalent
516063	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	53	\$15.84	High school diploma or equivalent
512031	Engine and Other Machine Assemblers	52	\$15.51	High school diploma or equivalent
514122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	46	\$17.14	High school diploma or equivalent
518091	Chemical Plant and System Operators	41	\$23.43	High school diploma or equivalent
519023	Mixing and Blending Machine Setters, Operators, and Tenders	40	\$14.37	High school diploma or equivalent
514192	Layout Workers, Metal and Plastic	37	\$26.40	High school diploma or equivalent
518093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	36	\$37.42	High school diploma or equivalent
519032	Cutting and Slicing Machine Setters, Operators, and Tenders	34	\$11.62	High school diploma or equivalent
519111	Packaging and Filling Machine Operators and Tenders	34	\$11.16	High school diploma or equivalent
519051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	33	\$19.00	High school diploma or equivalent
519196	Paper Goods Machine Setters, Operators, and Tenders	25	\$15.76	High school diploma or equivalent
	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and			
514021	Plastic	23	\$14.66	High school diploma or equivalent
F1/001	Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and	20	90.002	High school diploma or oguivalent
516091	Glass Fibers	22	\$20.98	High school diploma or equivalent
519195	Molders, Shapers, and Casters, Except Metal and Plastic	22	\$11.09	High school diploma or equivalent
512021	Coil Winders, Tapers, and Finishers	21	\$16.69	High school diploma or equivalent
512091	Fiberglass Laminators and Fabricators	21	\$14.35	High school diploma or equivalent
514111	Tool and Die Makers	18	\$19.50	High school diploma or equivalent
515112	Printing Press Operators	16	\$12.76	High school diploma or equivalent
514011	Computer-Controlled Machine Tool Operators, Metal and Plastic	15	\$16.76	High school diploma or equivalent
512011	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	13	\$27.79	High school diploma or equivalent
519011	Chemical Equipment Operators and Tenders	12	\$22.43	High school diploma or equivalent
514191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	10	\$19.33	High school diploma or equivalent
519021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	10	\$14.31	High school diploma or equivalent
514072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders,	5	\$11.77	High school diploma or equivalent
516041	Metal and Plastic Shoe and Leather Workers and Repairers	4	\$22.80	High school diploma or equivalent
518021	Stationary Engineers and Boiler Operators	4	\$14.80	High school diploma or equivalent
514012	Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic	3	\$19.80	High school diploma or equivalent
516062	Textile Cutting Machine Setters, Operators, and Tenders	2	\$11.63	High school diploma or equivalent
	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and			
514032	Plastic	1	\$14.54	High school diploma or equivalent
514034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1	\$14.97	High school diploma or equivalent
514071	Foundry Mold and Coremakers	1	\$9.98	High school diploma or equivalent
514071	Print Binding and Finishing Workers	1	\$11.33	High school diploma or equivalent
516092	Fabric and Apparel Patternmakers	1	\$15.55	High school diploma or equivalent
518013	Power Plant Operators	1	\$29.11	High school diploma or equivalent
	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters,			
519012	Operators, and Tenders	1	\$19.02	High school diploma or equivalent
519151	Photographic Process Workers and Processing Machine Operators	1	\$10.98	High school diploma or equivalent
Transport	tation/Material Moving Occupations	564	\$21.73	
533032	Heavy and Tractor-Trailer Truck Drivers	440	\$17.35	Postsecondary non-degree award
533033	Light Truck or Delivery Services Drivers	53	\$12.63	High school diploma or equivalent
531021	First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand	31	\$21.68	High school diploma or equivalent
535031	Ship Engineers	28	\$30.90	Bachelor's degree
537021	Crane and Tower Operators	10	\$18.63	High school diploma or equivalent
532012	Commercial Pilots	1	\$35.53	High school diploma or equivalent
537032	Excavating and Loading Machine and Dragline Operators	1	\$15.40	High school diploma or equivalent
007 002				

# APPENDIX K: HEALTHCARE JOB POSTINGS<sup>2</sup>

	ALLENDIA K. HEALTHC	MEGOD		THIOD
OSOC CODE	Description	Job Openings	Median Hourly Earnings	Education_Level
Manage	ement Occupations	80	\$29.39	
119051	Food Service Managers	50	\$22.42	High school diploma or equivalent
111021	General and Operations Managers	15	\$39.67	Bachelor's degree
113011	Administrative Services Managers	15	\$26.08	Bachelor's degree
				Baciloloi 3 dogido
	/Financial Occupations	32	\$23.03	
131199	Business Operations Specialists, All Other	27	\$29.54	High school diploma or equivalent
131022	Wholesale and Retail Buyers, Except Farm Products	4	\$27.15	High school diploma or equivalent
132082	Tax Preparers	1	\$12.40	High school diploma or equivalent
Comput	er/Mathematical Occupations	18	\$18.57	
151151	Computer User Support Specialists	18	\$18.57	Some college, no degree
Life/Phys	sical/Social Science Occupations	3	\$17.44	
				Associately de sus s
194099	Life, Physical, and Social Science Technicians, All Other	3	\$17.44	Associate's degree
Educatio	on/Training Occupations	154	\$12.01	
252011	Preschool Teachers, Except Special Education	107	\$11.71	Associate's degree
259041	Teacher Assistants	44	\$8.74	Some college, no degree
253021	Self-Enrichment Education Teachers	3	\$15.59	High school diploma or equivalent
Healthco	are Occupations	4,331	\$17.86	
				Destrocondant non deares autard
311014 291141	Nursing Assistants Registered Nurses	1,698 1,149	\$9.91 \$27.52	Postsecondary non-degree award Associate's degree
292061	Licensed Practical and Licensed Vocational Nurses	404	\$17.05	Postsecondary non-degree award
319099	Healthcare Support Workers, All Other	266	\$22.63	High school diploma or equivalent
292099	Health Technologists and Technicians, All Other	103	\$29.09	High school diploma or equivalent
319092	Medical Assistants	85	\$12.65	Postsecondary non-degree award
292041	Emergency Medical Technicians and Paramedics	81	\$14.11	Postsecondary non-degree award
292055	Surgical Technologists	59	\$15.78	Postsecondary non-degree award
292034	Radiologic Technologists	58	\$21.47	Associate's degree
292012	Medical and Clinical Laboratory Technicians	54	\$16.67	Associate's degree
292071	Medical Records and Health Information Technicians	54	\$13.10	Postsecondary non-degree award
291126	Respiratory Therapists	53	\$23.37	Associate's degree
292053	Psychiatric Technicians	49	\$12.07	Postsecondary non-degree award
292052	Pharmacy Technicians	32	\$12.65	High school diploma or equivalent
319091	Dental Assistants	31	\$15.02	Postsecondary non-degree award
319097	Phlebotomists	30	\$11.79	Postsecondary non-degree award
311013	Psychiatric Aides	21	\$10.10	High school diploma or equivalent
292032	Diagnostic Medical Sonographers	16	\$26.50	Associate's degree
292031	Cardiovascular Technologists and Technicians	14	\$19.39	Associate's degree
292051	Dietetic Technicians	11	\$9.21	Associate's degree
312021	Physical Therapist Assistants	11	\$21.16	Associate's degree
312011	Occupational Therapy Assistants	10	\$21.29	Associate's degree
319096	Veterinary Assistants and Laboratory Animal Caretakers	8	\$10.37	High school diploma or equivalent
292033	Nuclear Medicine Technologists	6	\$29.80	Associate's degree
292057	Ophthalmic Medical Technicians	6	\$15.54	Postsecondary non-degree award
292021	Dental Hygienists  Madical Transprintianists	5	\$25.23	Associate's degree
319094	Medical Transcriptionists  Registron Therapists	5	\$14.83	Postsecondary non-degree award
291124 312012	Radiation Therapists Occupational Therapy Aides	3	\$36.05	Associate's degree High school diploma or equivalent
292081	Occupational Inerapy Aides  Opticians, Dispensing	2	\$17.44 \$13.21	High school diploma or equivalent
312022	Physical Therapist Aides	1	\$13.21	High school diploma or equivalent
319011	Massage Therapists	1	\$19.99	Postsecondary non-degree award
319093	Medical Equipment Preparers	1	\$13.21	High school diploma or equivalent
			\$17.36	g.: 11::11: aproma or equivalent
	ve Service Occupations	38		
339032	Security Guards	30	\$10.06	High school diploma or equivalent
333051	Police and Sheriff's Patrol Officers	3	\$15.56	High school diploma or equivalent
333012	Correctional Officers and Jailers	2	\$13.00	High school diploma or equivalent
331012	First-Line Supervisors of Police and Detectives	1	\$24.54	High school diploma or equivalent
332021	Fire Inspectors and Investigators	1	\$26.92	High school diploma or equivalent
339011	Animal Control Workers	1	\$14.08	High school diploma or equivalent
Food Pre	eparation/Serving Occupations	5	\$21.41	
351011	Chefs and Head Cooks	5	\$21.41	High school diploma or equivalent
Building	/Grounds Cleaning/Maintenance Occupations	3	\$13.99	
371011	First-Line Supervisors of Housekeeping and Janitorial Workers	3	\$13.99	High school diploma or equivalent
0, 1011	This Enterespond of the second oping and samilonal morkers	9	ψ10.//	I riigit scribbi diploma di equivalem

<sup>&</sup>lt;sup>2</sup> Job Openings from MDES 2015

			440.00	
Personal	Care/Service Occupations	115	\$10.92	
399011	Childcare Workers	106	\$8.69	High school diploma or equivalent
399041	Residential Advisors	8	\$10.13	High school diploma or equivalent
399031	Fitness Trainers and Aerobics Instructors	1	\$13.93	High school diploma or equivalent
Sales Oc	cupations	1	\$15.51	
419011	Demonstrators and Product Promoters	1	\$15.51	High school diploma or equivalent
				rigit scribble alpiotha of equivalent
Office/A	dministrative Support Occupations	558	\$14.47	
439061	Office Clerks, General	120	\$10.63	High school diploma or equivalent
434051	Customer Service Representatives	73	\$12.83	High school diploma or equivalent
434171	Receptionists and Information Clerks	70	\$11.14	High school diploma or equivalent
436013	Medical Secretaries	70	\$13.74	High school diploma or equivalent
436014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	47	\$13.32	High school diploma or equivalent
436011	Executive Secretaries and Executive Administrative Assistants	24	\$18.15	High school diploma or equivalent
435021	Couriers and Messengers	22	\$9.99	High school diploma or equivalent
433031	Bookkeeping, Accounting, and Auditing Clerks	21	\$15.31	High school diploma or equivalent
439041	Insurance Claims and Policy Processing Clerks	17	\$15.02	High school diploma or equivalent
433021	Billing and Posting Clerks	14	\$14.15	High school diploma or equivalent
431011	First-Line Supervisors of Office and Administrative Support Workers	10	\$20.59	High school diploma or equivalent
434071	File Clerks	9	\$10.94	High school diploma or equivalent
435071	Shipping, Receiving, and Traffic Clerks	9	\$13.11	High school diploma or equivalent
434061	Eligibility Interviewers, Government Programs	6	\$15.30	High school diploma or equivalent
434199	Information and Record Clerks, All Other	6	\$19.07	High school diploma or equivalent
439021	Data Entry Keyers	6	\$11.73	High school diploma or equivalent
433011	Bill and Account Collectors	5	\$13.85	High school diploma or equivalent
435031	Police, Fire, and Ambulance Dispatchers	4	\$11.60	High school diploma or equivalent
435051	Postal Service Clerks	4	\$25.68	High school diploma or equivalent
432011	Switchboard Operators, Including Answering Service	3	\$11.80	High school diploma or equivalent
433051	Payroll and Timekeeping Clerks	3	\$15.77	High school diploma or equivalent
433061	Procurement Clerks	2	\$18.37	High school diploma or equivalent
434021	Correspondence Clerks	2	\$18.40	High school diploma or equivalent
434161	Human Resources Assistants, Except Payroll and Timekeeping	2	\$16.99	High school diploma or equivalent
435061	Production, Planning, and Expediting Clerks	2	\$19.48	High school diploma or equivalent
439022	Word Processors and Typists	2	\$12.94	High school diploma or equivalent
432021	Telephone Operators	1	\$10.47	High school diploma or equivalent
434031	Court, Municipal, and License Clerks	1	\$14.06	High school diploma or equivalent
434121	Library Assistants, Clerical	1	\$9.42	High school diploma or equivalent
434151	Order Clerks	1	\$13.27	High school diploma or equivalent
435041	Meter Readers, Utilities	1	\$11.44	High school diploma or equivalent
Construc	tion Occupations	22	\$17.42	
474041	Hazardous Materials Removal Workers	9	\$13.24	High school diploma or equivalent
472031	Carpenters	7	\$16.44	High school diploma or equivalent
472043	Floor Sanders and Finishers	3	\$14.98	High school diploma or equivalent
472111	Electricians	2	\$21.50	High school diploma or equivalent
472152	Plumbers, Pipefitters, and Steamfitters	1	\$18.48	High school diploma or equivalent
Installatio	on/Maintenance/Repair Occupations	53	\$16.92	
	Maintenance and Repair Workers, General	31	\$13.40	High school diploma or equivalent
499062	Medical Equipment Repairers	8	\$21.16	Associate's degree
499043	Maintenance Workers, Machinery	5	\$18.83	High school diploma or equivalent
499021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	4	\$16.89	Postsecondary non-degree award
493031	Bus and Truck Mechanics and Diesel Engine Specialists	2	\$16.99	High school diploma or equivalent
493023	Automotive Service Technicians and Mechanics	1	\$15.25	High school diploma or equivalent
499098	HelpersInstallation, Maintenance, and Repair Workers	-	\$11.93	High school diploma or equivalent
499099	Installation, Maintenance, and Repair Workers, All Other	1	\$20.94	High school diploma or equivalent
Production	on Occupations	16	\$18.67	
517041	Sawing Machine Setters, Operators, and Tenders, Wood	6	\$11.73	High school diploma or equivalent
511011	First-Line Supervisors of Production and Operating Workers	3	\$22.23	Postsecondary non-degree award
518021	Stationary Engineers and Boiler Operators	3	\$14.80	High school diploma or equivalent
519061	Inspectors, Testers, Sorters, Samplers, and Weighers	2	\$13.90	High school diploma or equivalent
518099	Plant and System Operators, All Other	1	\$32.19	High school diploma or equivalent
310077		1	¢1714	High school diploma or equivalent
519081	Dental Laboratory Technicians	1	\$17.14	riigit scriool diplottid of equivalent
519081				riigirischool alpiorna of equivalent
519081 Transpor	tation/Material Moving Occupations	147	\$16.92	
519081 Transpor 533022	tation/Material Moving Occupations  Bus Drivers, School or Special Client	<b>147</b> 90	<b>\$16.92</b> \$9.10	High school diploma or equivalent
519081 Transport 533022 533021	tation/Material Moving Occupations  Bus Drivers, School or Special Client Bus Drivers, Transit and Intercity	90 23	<b>\$16.92</b> \$9.10 \$12.96	High school diploma or equivalent High school diploma or equivalent
519081 Transport 533022 533021 533033	tation/Material Moving Occupations  Bus Drivers, School or Special Client Bus Drivers, Transit and Intercity Light Truck or Delivery Services Drivers	90 23 11	\$16.92 \$9.10 \$12.96 \$12.63	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent
519081 Transport 533022 533021 533033 531021	Bus Drivers, School or Special Client Bus Drivers, Transit and Intercity Light Truck or Delivery Services Drivers First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand	90 23 11 10	\$16.92 \$9.10 \$12.96 \$12.63 \$21.68	High school diploma or equivalent
519081 Transport 533022 533021 533033 531021 532012	Bus Drivers, School or Special Client Bus Drivers, Transit and Intercity Light Truck or Delivery Services Drivers First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand Commercial Pilots	90 23 11 10 8	\$16.92 \$9.10 \$12.96 \$12.63 \$21.68 \$35.53	High school diploma or equivalent
519081 Transport 533022 533021 533033 531021	Bus Drivers, School or Special Client Bus Drivers, Transit and Intercity Light Truck or Delivery Services Drivers First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand	90 23 11 10	\$16.92 \$9.10 \$12.96 \$12.63 \$21.68	High school diploma or equivalent

# APPENDIX K: WHOLESALE/RETAIL JOB POSTINGS<sup>3</sup>

Management Occupations	OSOC CODE	Description	Job Openings	Median Hourly Earnings	Education_Level
110011   Administrative Services Managers   35   397.67   Boschelors degree	Manage	ment Occupations	114	\$28.84	
110011   Administrative Services Managers   35   397.67   Boschelors degree	119051	Food Service Managers	43	\$22,42	High school diploma or equivalent
Normantsforther Services Monogens					
13073   Modular Production Managers   1   \$37.05   Bechelor's degree	113011	Administrative Services Managers	30	\$26.08	
Substitute   Sub			5		
13192   Wholescle and Retail Buyers, Except Form Products   1   327.5   High school cigloma or equivalent Computer Workshop Computer Specialists, All Other   2   318.57   Some college, no degree Expression Computer User Support Specialists   2   318.57   Some college, no degree Expression Computer User Support Specialists   2   318.57   Some college, no degree Expression Computer User Support Specialists   2   318.57   Some college, no degree Expression Computer User Support Specialists   2   318.57   Some college, no degree Expression Computer User Support Specialists   2   318.57   Some college, no degree Expression Computer User Support Specialists   2   35.91   Associate's degree   35.91   Associa	113051	Industrial Production Managers	1	\$37.05	Bachelor's degree
Suriness Coentroln's Specialists, M.Other	Business	/Financial Occupations	2	\$28.35	
Computer User Support Specialists   2   \$18.57	131022	Wholesale and Retail Buyers, Except Farm Products	1	\$27.15	High school diploma or equivalent
151151   Computer User Support Specialist   2   \$18.57   Some college, no degree	131199	Business Operations Specialists, All Other	1	\$29.54	High school diploma or equivalent
Inchesing Occupations   Sectional and Electronics Engineering Technicians   4   S26.32   Associate's degree	Compute	er/Mathematical Occupations	2	\$18.57	
Page	151151	Computer User Support Specialists	2	\$18.57	Some college, no degree
179024   Escritical and Rectronics Engineering Technicions	Engineer	ing Occupations	8	\$24.31	
173031					Associate's degree
1   522.76   Associatés degree   1   522.76   Associatés degree   1   522.74   Associatés degree   1   522.72   Associatés degree   1   522.52   Associatés degree					<u> </u>
1   \$22.24   Associate's degree   Associate's deg					· · · · · · · · · · · · · · · · · · ·
Art and Media Occupations  105   \$13.90    271026   Merchandise Displayers and Window Trimmers  106   \$18.22    1071027   High school diploma or equivalent the company of			1		
271026     Merchandise Displayers and Window Trimmers     102     \$16.20     High school diploma or equivalent Meditacroe Cocuptions       271023     Florar Designers     3     \$11.59     High school diploma or equivalent Meditacroe       40     \$18.22       222026     Pharmacy Technicians     18     \$12.45     High school diploma or equivalent Mining Assistants       31014     Nursing Assistants     13     \$9.91     Postsecondary non-degree award Associate's degree       319095     Pharmacy Males     2     \$27.52     12.59     High school diploma or equivalent Associate's degree       221012     Respiratory Therapoits     1     \$25.37     Associate's degree       222021     Dental Hygienits     1     \$25.33     Associate's degree       222021     Leensed Practical and Licensed Vacational Nurses     1     \$17.05     Postsecondary non-degree award       31092     Medicical Assistants     1     \$17.05     Postsecondary non-degree award       31099     Medicical Satistants     1     \$17.25     Postsecondary non-degree award       40     \$1.25     \$3     \$3     \$3     \$3     \$3       319091     Child Care Workers     1     \$17.26     Postsecondary non-degree award       390101     Child Care Workers     7     \$3.68     High	Art and A		105	\$13.90	
Part   Personal Coccupations   Personal Coc					High school diploma or equivalent
Healthcare Occupations					
Post process					
31101   Nursing Assistants   13   \$5.91   Postsecondary non-degree award 21114   Registered Nurses   2   \$12.99   High school diploma or equivalent 21126   Respiratory Therapsits   1   \$22.37   Associate's degree 220201   Define High period of the Property Theory (1998)   1   \$22.37   Associate's degree 220201   Define High period of the Property		· · · · ·			High school diploma or oquivalent
2   32.52   Associate's degree					
31995   Pharmacy Aidas   2   \$12.99   High school diploma or equivalent   \$23.37   Associate's degree   \$29201   Dental Hygienids   1   \$23.37   Associate's degree   \$29201   Dental Hygienids   1   \$25.23   Associate's degree   \$29201   Dental Hygienids   1   \$17.05   Postsecondary non-degree award   \$19092   Medical Assistants   1   \$12.65   Postsecondary non-degree award   \$19092   Medical Assistants   1   \$12.65   Postsecondary non-degree award   \$19092   Medical Assistants   Total Aid					
29201   Dental Hygienists   1   \$35.23   Associate's degree					Ŭ
222041     Licensed Practical and Licensed Vocational Nurses     1     \$12.05     Postsecondary non-degree award       319079     Medical Assistants     1     \$12.65     Postsecondary non-degree award       319079     Healthcare Support Workers, All Other     1     \$22.63     High school diploma or equivalent       Personal Care/Service Occupations     73     \$13.12       379011     Childcare Workers     7     \$8.69     High school diploma or equivalent       Holidcare Workers     3     \$12.00     Postsecondary non-degree award       379012     Hick Care Workers     7     \$8.69     High school diploma or equivalent       379012     Tiroval Guides     1     \$17.27     High school diploma or equivalent       379012     Tiroval Guides     318     \$17.02     High school diploma or equivalent       3868 Occupations     319     \$16.27       411011     First-Line Supervisors of Retail Sales Workers     318     \$17.02     High school diploma or equivalent       419011     Demonstrators and Product Promoters     1     \$15.51     High school diploma or equivalent       434051     Customer Service Representatives     466     \$12.83     High school diploma or equivalent       435011     Shipping, Receiving, and Traffic Clerks     72     \$13.11     High school diploma or equi	291126	Respiratory Therapists	1	\$23.37	Associate's degree
Secondary Non-degree award   Secondary Non-			1		Associate's degree
Realthcare Support Workers, All Other   1   \$22.63   High school diploma or equivalent					
Personal Care/Service Occupations   13   \$13.12					
399011Childcare Workers7\$8.69High school diploma or equivalent395012Hoirdressers, Hairstylists, and Cosmetologists3\$12.00Postsecondary non-degree award397012Trist-Line Supervisors of Personal Service Workers2\$14.53High school diploma or equivalent397012Travel Guides1\$17.27High school diploma or equivalent397012Travel Guides318\$17.22High school diploma or equivalent3018\$17.22High school diploma or equivalent3019\$15.51High school diploma or equivalent3010Demonstrators and Product Promoters1\$15.51High school diploma or equivalent3010Merica Supervisors of Retail Sales Workers466\$12.83High school diploma or equivalent302Shipping, Receiving, and Traffic Clerks72\$13.11High school diploma or equivalent435011Meter Readers, Utilities51\$11.44High school diploma or equivalent430313Bookkeeping, Accounting, and Auditing Clerks23\$15.31High school diploma or equivalent430414Secretaries and Administrative Assistants, Except Legal, Medical, and Executive14\$13.32High school diploma or equivalent434014Secretaries and Administrative Assistants, Except Legal, Medical, and Executive14\$13.32High school diploma or equivalent434015Order Clerks12\$13.27High school diploma or equivalent434010Billing and Posting Clerks5\$14.15High					High school diploma or equivalent
395012   Hairdressers, Hairstylists, and Cosmetologists   3   \$12.00   Postsecondary non-degree award   391021   First-Line Supervisors of Personal Service Workers   2   \$14.53   High school diploma or equivalent   \$17.72   High school diploma or equivalent   \$17.72   High school diploma or equivalent   \$17.72   High school diploma or equivalent   \$18.51   High school diploma or equivalent   \$19.51   High school diploma					
391021   First-Line Supervisors of Personal Service Workers   2   \$14.53   High school diploma or equivalent					
397012Travel Guides1\$17.27High school diploma or equivalentSales Occupations319\$16.27411011First-Line Supervisors of Retail Sales Workers318\$17.02High school diploma or equivalent411011Demonstrators and Product Promoters1\$15.51High school diploma or equivalentOffice/Administrative Support Occupations695\$15.51434051Customer Service Representatives466\$12.83High school diploma or equivalent435071Shipping, Receiving, and Traffic Clerks72\$13.11High school diploma or equivalent435071Meter Readers, Utilities51\$11.44High school diploma or equivalent435071Meter Readers, Utilities51\$11.44High school diploma or equivalent435071Meter Readers, Utilities23\$15.31High school diploma or equivalent435071Meter Readers, Utilities23\$15.31High school diploma or equivalent439019Office and Administrative Support Workers, All Other16\$20.40High school diploma or equivalent439119Office Clerks12\$13.32High school diploma or equivalent434151Order Clerks11\$11.14High school diploma or equivalent434171Receptionists and Information Clerks11\$11.14High school diploma or equivalent439041Office Clerks, General11\$11.14High school diploma or equivalent439041Billing and Posting Clerks5\$14.15<					
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	Farming/	/Fishing/Forestry Occupations	5	\$20.83	
	451011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	3	\$22.07	High school diploma or equivalent

<sup>&</sup>lt;sup>3</sup> Job Openings from MDES 2015

	tion Occupations	13	\$19.49	
472111	Electricians	6	\$21.50	High school diploma or equivalent
472031	Carpenters	2	\$16.44	High school diploma or equivalent
474099	Construction and Related Workers, All Other	2	\$29.82	High school diploma or equivalent
472073	Operating Engineers and Other Construction Equipment Operators	1	\$16.12	High school diploma or equivalent
472221	Structural Iron and Steel Workers	1	\$19.83	High school diploma or equivalent
474041	Hazardous Materials Removal Workers	1	\$13.24	High school diploma or equivalent
		025		Thigh series alpierna of equivalent
	on/Maintenance/Repair Occupations	235	\$18.43	
499099	Installation, Maintenance, and Repair Workers, All Other	79	\$20.94	High school diploma or equivalent
493023	Automotive Service Technicians and Mechanics	41	\$15.25	High school diploma or equivalent
499071	Maintenance and Repair Workers, General	31	\$13.40	High school diploma or equivalent
492022	Telecommunications Equipment Installers and Repairers, Except Line Installers	26	\$30.27	Postsecondary non-degree award
493031	Bus and Truck Mechanics and Diesel Engine Specialists	12	\$16.99	High school diploma or equivalent
493021	Automotive Body and Related Repairers	10	\$15.09	High school diploma or equivalent
493041	Farm Equipment Mechanics and Service Technicians	7	\$16.17	High school diploma or equivalent
499021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	5	\$16.89	Postsecondary non-degree award
492092	Electric Motor, Power Tool, and Related Repairers	4	\$19.33	Postsecondary non-degree award
492011	Computer, Automated Teller, and Office Machine Repairers	3	\$15.88	Some college, no degree
493022	Automotive Glass Installers and Repairers	2	\$14.80	High school diploma or equivalent
493092	Recreational Vehicle Service Technicians	2	\$15.64	High school diploma or equivalent
499041	Industrial Machinery Mechanics	2	\$22.43	High school diploma or equivalent
499091	Coin, Vending, and Amusement Machine Servicers and Repairers	2	\$14.40	High school diploma or equivalent
499092	Commercial Divers	2	\$22.65	Postsecondary non-degree award
491011	First-Line Supervisors of Mechanics, Installers, and Repairers		\$25.46	High school diploma or equivalent
492094 492097	Electrical and Electronics Repairers, Commercial and Industrial Equipment	1	\$19.00	Postsecondary non-degree award
492097	Electronic Home Entertainment Equipment Installers and Repairers  Mobile Heavy Equipment Mechanics, Except Engines	1	\$18.22 \$18.97	Postsecondary non-degree award High school diploma or equivalent
493051	Motorboat Mechanics and Service Technicians	1	\$19.13	High school diploma or equivalent
493052	Motorcycle Mechanics	1	\$16.20	High school diploma or equivalent
499031	Home Appliance Repairers	1	\$18.43	High school diploma or equivalent
	on Occupations	74	\$15.76	mgn school diploma of equivalent
Trodocin				
5100/1				
519061	Inspectors, Testers, Sorters, Samplers, and Weighers	20	\$13.90	High school diploma or equivalent
511011	Inspectors, Testers, Sorters, Samplers, and Weighers First-Line Supervisors of Production and Operating Workers	20 13	\$13.90 \$22.23	Postsecondary non-degree award
511011 517041	Inspectors, Testers, Sorters, Samplers, and Weighers First-Line Supervisors of Production and Operating Workers Sawing Machine Setters, Operators, and Tenders, Wood	20 13 8	\$13.90 \$22.23 \$11.73	Postsecondary non-degree award High school diploma or equivalent
511011 517041 514121	Inspectors, Testers, Sorters, Samplers, and Weighers First-Line Supervisors of Production and Operating Workers Sawing Machine Setters, Operators, and Tenders, Wood Welders, Cutters, Solderers, and Brazers	20 13 8 7	\$13.90 \$22.23 \$11.73 \$18.72	Postsecondary non-degree award High school diploma or equivalent High school diploma or equivalent
511011 517041 514121 517042	Inspectors, Testers, Sorters, Samplers, and Weighers First-Line Supervisors of Production and Operating Workers Sawing Machine Setters, Operators, and Tenders, Wood Welders, Cutters, Solderers, and Brazers Woodworking Machine Setters, Operators, and Tenders, Except Sawing	20 13 8 7 6	\$13.90 \$22.23 \$11.73 \$18.72 \$12.27	Postsecondary non-degree award High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent
511011 517041 514121 517042 512022	Inspectors, Testers, Sorters, Samplers, and Weighers First-Line Supervisors of Production and Operating Workers Sawing Machine Setters, Operators, and Tenders, Wood Welders, Cutters, Solderers, and Brazers Woodworking Machine Setters, Operators, and Tenders, Except Sawing Electrical and Electronic Equipment Assemblers	20 13 8 7 6 5	\$13.90 \$22.23 \$11.73 \$18.72 \$12.27 \$13.73	Postsecondary non-degree award High school diploma or equivalent
511011 517041 514121 517042 512022 516093	Inspectors, Testers, Sorters, Samplers, and Weighers First-Line Supervisors of Production and Operating Workers Sawing Machine Setters, Operators, and Tenders, Wood Welders, Cutters, Solderers, and Brazers Woodworking Machine Setters, Operators, and Tenders, Except Sawing Electrical and Electronic Equipment Assemblers Upholsterers	20 13 8 7 6 5	\$13.90 \$22.23 \$11.73 \$18.72 \$12.27 \$13.73 \$15.60	Postsecondary non-degree award High school diploma or equivalent
511011 517041 514121 517042 512022 516093 514023	Inspectors, Testers, Sorters, Samplers, and Weighers First-Line Supervisors of Production and Operating Workers Sawing Machine Setters, Operators, and Tenders, Wood Welders, Cutters, Solderers, and Brazers Woodworking Machine Setters, Operators, and Tenders, Except Sawing Electrical and Electronic Equipment Assemblers Upholsterers Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	20 13 8 7 6 5 3	\$13.90 \$22.23 \$11.73 \$18.72 \$12.27 \$13.73 \$15.60 \$14.66	Postsecondary non-degree award High school diploma or equivalent
511011 517041 514121 517042 512022 516093 514023	Inspectors, Testers, Sorters, Samplers, and Weighers First-Line Supervisors of Production and Operating Workers Sawing Machine Setters, Operators, and Tenders, Wood Welders, Cutters, Solderers, and Brazers Woodworking Machine Setters, Operators, and Tenders, Except Sawing Electrical and Electronic Equipment Assemblers Upholsterers Rolling Machine Setters, Operators, and Tenders, Metal and Plastic Machinists	20 13 8 7 6 5 3 2	\$13.90 \$22.23 \$11.73 \$18.72 \$12.27 \$13.73 \$15.60 \$14.66 \$18.90	Postsecondary non-degree award High school diploma or equivalent
511011 517041 514121 517042 512022 516093 514023	Inspectors, Testers, Sorters, Samplers, and Weighers First-Line Supervisors of Production and Operating Workers Sawing Machine Setters, Operators, and Tenders, Wood Welders, Cutters, Solderers, and Brazers Woodworking Machine Setters, Operators, and Tenders, Except Sawing Electrical and Electronic Equipment Assemblers Upholsterers Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	20 13 8 7 6 5 3	\$13.90 \$22.23 \$11.73 \$18.72 \$12.27 \$13.73 \$15.60 \$14.66	Postsecondary non-degree award High school diploma or equivalent
511011 517041 514121 517042 512022 516093 514023	Inspectors, Testers, Sorters, Samplers, and Weighers First-Line Supervisors of Production and Operating Workers Sawing Machine Setters, Operators, and Tenders, Wood Welders, Cutters, Solderers, and Brazers Woodworking Machine Setters, Operators, and Tenders, Except Sawing Electrical and Electronic Equipment Assemblers Upholsterers Rolling Machine Setters, Operators, and Tenders, Metal and Plastic Machinists Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders Forging Machine Setters, Operators, and Tenders, Metal and Plastic	20 13 8 7 6 5 3 2	\$13.90 \$22.23 \$11.73 \$18.72 \$12.27 \$13.73 \$15.60 \$14.66 \$18.90	Postsecondary non-degree award High school diploma or equivalent
511011 517041 514121 517042 512022 516093 514023 514041 519041	Inspectors, Testers, Sorters, Samplers, and Weighers First-Line Supervisors of Production and Operating Workers Sawing Machine Setters, Operators, and Tenders, Wood Welders, Cutters, Solderers, and Brazers Woodworking Machine Setters, Operators, and Tenders, Except Sawing Electrical and Electronic Equipment Assemblers Upholsterers Rolling Machine Setters, Operators, and Tenders, Metal and Plastic Machinists Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders Forging Machine Setters, Operators, and Tenders, Metal and Plastic Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders,	20 13 8 7 6 5 3 2 2 2	\$13.90 \$22.23 \$11.73 \$18.72 \$12.27 \$13.73 \$15.60 \$14.66 \$18.90 \$12.71 \$16.83	Postsecondary non-degree award High school diploma or equivalent
511011 517041 514121 517042 512022 516093 514023 514041 519041 514022 514072	Inspectors, Testers, Sorters, Samplers, and Weighers First-Line Supervisors of Production and Operating Workers Sawing Machine Setters, Operators, and Tenders, Wood Welders, Cutters, Solderers, and Brazers Woodworking Machine Setters, Operators, and Tenders, Except Sawing Electrical and Electronic Equipment Assemblers Upholsterers Rolling Machine Setters, Operators, and Tenders, Metal and Plastic Machinists Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders Forging Machine Setters, Operators, and Tenders, Metal and Plastic Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	20 13 8 7 6 5 3 2 2	\$13.90 \$22.23 \$11.73 \$18.72 \$12.27 \$13.73 \$15.60 \$14.66 \$18.90 \$12.71 \$16.83	Postsecondary non-degree award High school diploma or equivalent
511011 517041 514121 517042 512022 516093 514023 514041 519041 514022 514072 515112	Inspectors, Testers, Sorters, Samplers, and Weighers First-Line Supervisors of Production and Operating Workers Sawing Machine Setters, Operators, and Tenders, Wood Welders, Cutters, Solderers, and Brazers Woodworking Machine Setters, Operators, and Tenders, Except Sawing Electrical and Electronic Equipment Assemblers Upholsterers Rolling Machine Setters, Operators, and Tenders, Metal and Plastic Machinists Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders Forging Machine Setters, Operators, and Tenders, Metal and Plastic Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic Printing Press Operators	20 13 8 7 6 5 3 2 2 2 1	\$13.90 \$22.23 \$11.73 \$18.72 \$12.27 \$13.73 \$15.60 \$14.66 \$18.90 \$12.71 \$16.83 \$11.77	Postsecondary non-degree award High school diploma or equivalent
511011 517041 514121 517042 512022 516093 514023 514041 519041 514022 514072 515112 516052	Inspectors, Testers, Sorters, Samplers, and Weighers First-Line Supervisors of Production and Operating Workers Sawing Machine Setters, Operators, and Tenders, Wood Welders, Cutters, Solderers, and Brazers Woodworking Machine Setters, Operators, and Tenders, Except Sawing Electrical and Electronic Equipment Assemblers Upholsterers Rolling Machine Setters, Operators, and Tenders, Metal and Plastic Machinists Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders Forging Machine Setters, Operators, and Tenders, Metal and Plastic Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic Printing Press Operators Tailors, Dressmakers, and Custom Sewers	20 13 8 7 6 5 3 2 2 2	\$13.90 \$22.23 \$11.73 \$18.72 \$12.27 \$13.73 \$15.60 \$14.66 \$18.90 \$12.71 \$16.83 \$11.77 \$12.76 \$12.14	Postsecondary non-degree award High school diploma or equivalent Less than high school
511011 517041 514121 517042 512022 516093 514023 514041 519041 514022 514072 515112 516052 517011	Inspectors, Testers, Sorters, Samplers, and Weighers First-Line Supervisors of Production and Operating Workers Sawing Machine Setters, Operators, and Tenders, Wood Welders, Cutters, Solderers, and Brazers Woodworking Machine Setters, Operators, and Tenders, Except Sawing Electrical and Electronic Equipment Assemblers Upholsterers Rolling Machine Setters, Operators, and Tenders, Metal and Plastic Machinists Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders Forging Machine Setters, Operators, and Tenders, Metal and Plastic Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic Printing Press Operators Tailors, Dressmakers, and Custom Sewers Cabinetmakers and Bench Carpenters	20 13 8 7 6 5 3 2 2 2 1 1	\$13.90 \$22.23 \$11.73 \$18.72 \$12.27 \$13.73 \$15.60 \$14.66 \$18.90 \$12.71 \$16.83 \$11.77 \$12.76 \$12.14 \$11.98	Postsecondary non-degree award High school diploma or equivalent Less than high school High school diploma or equivalent
511011 517041 514121 517042 512022 516093 514023 514041 519041 514022 514072 515112 516052 517011 518099	Inspectors, Testers, Sorters, Samplers, and Weighers First-Line Supervisors of Production and Operating Workers Sawing Machine Setters, Operators, and Tenders, Wood Welders, Cutters, Solderers, and Brazers Woodworking Machine Setters, Operators, and Tenders, Except Sawing Electrical and Electronic Equipment Assemblers Upholsterers Rolling Machine Setters, Operators, and Tenders, Metal and Plastic Machinists Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders Forging Machine Setters, Operators, and Tenders, Metal and Plastic Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic Printing Press Operators Tailors, Dressmakers, and Custom Sewers Cabinetmakers and Bench Carpenters Plant and System Operators, All Other	20 13 8 7 6 5 3 2 2 2 1 1	\$13.90 \$22.23 \$11.73 \$18.72 \$12.27 \$13.73 \$15.60 \$14.66 \$18.90 \$12.71 \$16.83 \$11.77 \$12.76 \$12.14 \$11.98 \$32.19	Postsecondary non-degree award High school diploma or equivalent Less than high school
511011 517041 514121 517042 512022 516093 514023 514041 519041 514022 514072 515112 516052 517011 518099 Transpor	Inspectors, Testers, Sorters, Samplers, and Weighers First-Line Supervisors of Production and Operating Workers Sawing Machine Setters, Operators, and Tenders, Wood Welders, Cutters, Solderers, and Brazers Woodworking Machine Setters, Operators, and Tenders, Except Sawing Electrical and Electronic Equipment Assemblers Upholsterers Rolling Machine Setters, Operators, and Tenders, Metal and Plastic Machinists Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders Forging Machine Setters, Operators, and Tenders, Metal and Plastic Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic Printing Press Operators Tailors, Dressmakers, and Custom Sewers Cabinetmakers and Bench Carpenters Plant and System Operators, All Other tation/Material Moving Occupations	20 13 8 7 6 5 3 2 2 2 1 1 1 1 299	\$13.90 \$22.23 \$11.73 \$18.72 \$12.27 \$13.73 \$15.60 \$14.66 \$18.90 \$12.71 \$16.83 \$11.77 \$12.76 \$12.14 \$11.98 \$32.19	Postsecondary non-degree award High school diploma or equivalent Less than high school High school diploma or equivalent Less than high school High school diploma or equivalent High school diploma or equivalent
511011 517041 517042 514022 516093 514023 514021 519041 514022 514072 515112 516052 517011 518099 Transport 533032	Inspectors, Testers, Sorters, Samplers, and Weighers First-Line Supervisors of Production and Operating Workers Sawing Machine Setters, Operators, and Tenders, Wood Welders, Cutters, Solderers, and Brazers Woodworking Machine Setters, Operators, and Tenders, Except Sawing Electrical and Electronic Equipment Assemblers Upholsterers Rolling Machine Setters, Operators, and Tenders, Metal and Plastic Machinists Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders Forging Machine Setters, Operators, and Tenders, Metal and Plastic Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic Printing Press Operators Tailors, Dressmakers, and Custom Sewers Cabinetmakers and Bench Carpenters Plant and System Operators, All Other  tation/Material Moving Occupations Heavy and Tractor-Trailer Truck Drivers	20 13 8 7 6 5 3 2 2 2 1 1 1 1 1 299 166	\$13.90 \$22.23 \$11.73 \$18.72 \$12.27 \$13.73 \$15.60 \$14.66 \$18.90 \$12.71 \$16.83 \$11.77 \$12.76 \$12.14 \$11.98 \$32.19 \$18.98	Postsecondary non-degree award High school diploma or equivalent Less than high school High school diploma or equivalent Less than high school High school diploma or equivalent High school diploma or equivalent Output Dessecondary non-degree award
511011 517041 514121 517042 512022 516093 514023 514041 519041 514022 514072 515112 516052 517011 518099 Transpor 533032 533033	Inspectors, Testers, Sorters, Samplers, and Weighers First-Line Supervisors of Production and Operating Workers Sawing Machine Setters, Operators, and Tenders, Wood Welders, Cutters, Solderers, and Brazers Woodworking Machine Setters, Operators, and Tenders, Except Sawing Electrical and Electronic Equipment Assemblers Upholsterers Rolling Machine Setters, Operators, and Tenders, Metal and Plastic Machinists Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders Forging Machine Setters, Operators, and Tenders, Metal and Plastic Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic Printing Press Operators Tailors, Dressmakers, and Custom Sewers Cabinetmakers and Bench Carpenters Plant and System Operators, All Other tation/Material Moving Occupations Heavy and Tractor-Trailer Truck Drivers Light Truck or Delivery Services Drivers	20 13 8 7 6 5 3 2 2 1 1 1 1 1 299 166 115	\$13.90 \$22.23 \$11.73 \$18.72 \$12.27 \$13.73 \$15.60 \$14.66 \$18.90 \$12.71 \$16.83 \$11.77 \$12.76 \$12.14 \$11.98 \$32.19 \$18.98 \$17.35 \$12.63	Postsecondary non-degree award High school diploma or equivalent Less than high school High school diploma or equivalent
511011 517041 514121 517042 512022 516093 514041 519041 514022 514072 515112 516052 517011 518099 Transpor 533032 533033 536051	Inspectors, Testers, Sorters, Samplers, and Weighers First-Line Supervisors of Production and Operating Workers Sawing Machine Setters, Operators, and Tenders, Wood Welders, Cutters, Solderers, and Brazers Woodworking Machine Setters, Operators, and Tenders, Except Sawing Electrical and Electronic Equipment Assemblers Upholsterers Rolling Machine Setters, Operators, and Tenders, Metal and Plastic Machinists Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders Forging Machine Setters, Operators, and Tenders, Metal and Plastic Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic Printing Press Operators Tailors, Dressmakers, and Custom Sewers Cabinetmakers and Bench Carpenters Plant and System Operators, All Other  tation/Material Moving Occupations Heavy and Tractor-Trailer Truck Drivers Light Truck or Delivery Services Drivers Transportation Inspectors	20 13 8 7 6 5 3 2 2 1 1 1 1 1 299 166 115 5	\$13.90 \$22.23 \$11.73 \$18.72 \$12.27 \$13.73 \$15.60 \$14.66 \$18.90 \$12.71 \$16.83 \$11.77 \$12.76 \$12.14 \$11.98 \$32.19 \$18.98 \$32.19	Postsecondary non-degree award High school diploma or equivalent Less than high school High school diploma or equivalent Less than high school High school diploma or equivalent
511011 517041 514121 517042 512022 516093 514041 519041 519041 514022 514072 515112 516052 517011 518099 Transpor 533032 533033 536051 537032	Inspectors, Testers, Sorters, Samplers, and Weighers First-Line Supervisors of Production and Operating Workers Sawing Machine Setters, Operators, and Tenders, Wood Welders, Cutters, Solderers, and Brazers Woodworking Machine Setters, Operators, and Tenders, Except Sawing Electrical and Electronic Equipment Assemblers Upholsterers Rolling Machine Setters, Operators, and Tenders, Metal and Plastic Machinists Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders Forging Machine Setters, Operators, and Tenders, Metal and Plastic Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic Printing Press Operators Tailors, Dressmakers, and Custom Sewers Cabinetmakers and Bench Carpenters Plant and System Operators, All Other  tation/Material Moving Occupations Heavy and Tractor-Trailer Truck Drivers Light Truck or Delivery Services Drivers Transportation Inspectors Excavating and Loading Machine and Dragline Operators	20 13 8 7 6 5 3 2 2 1 1 1 1 1 299 166 115 5 5	\$13.90 \$22.23 \$11.73 \$18.72 \$12.27 \$13.73 \$15.60 \$14.66 \$18.90 \$12.71 \$16.83 \$11.77 \$12.76 \$12.14 \$11.98 \$32.19 \$17.35 \$12.63 \$23.45 \$15.40	Postsecondary non-degree award High school diploma or equivalent Less than high school High school diploma or equivalent
511011 517041 517042 512022 516093 514023 514041 519041 519041 514022 514072 515112 516052 517011 518099 Transpor 533032 533033 536051 537032 531021	Inspectors, Testers, Sorters, Samplers, and Weighers First-Line Supervisors of Production and Operating Workers Sawing Machine Setters, Operators, and Tenders, Wood Welders, Cutters, Solderers, and Brazers Woodworking Machine Setters, Operators, and Tenders, Except Sawing Electrical and Electronic Equipment Assemblers Upholsterers Rolling Machine Setters, Operators, and Tenders, Metal and Plastic Machinists Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders Forging Machine Setters, Operators, and Tenders, Metal and Plastic Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic Printing Press Operators Tailors, Dressmakers, and Custom Sewers Cabinetmakers and Bench Carpenters Plant and System Operators, All Other tation/Material Moving Occupations Heavy and Tractor-Trailer Truck Drivers Light Truck or Delivery Services Drivers Transportation Inspectors Excavating and Loading Machine and Dragline Operators First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand	20 13 8 7 6 5 3 2 2 1 1 1 1 1 299 166 115 5 4	\$13.90 \$22.23 \$11.73 \$18.72 \$12.27 \$13.73 \$15.60 \$14.66 \$18.90 \$12.71 \$16.83 \$11.77 \$12.76 \$12.14 \$11.98 \$32.19 \$18.98 \$17.35 \$12.63 \$23.45 \$15.40 \$21.68	Postsecondary non-degree award High school diploma or equivalent Less than high school High school diploma or equivalent
511011 517041 517042 512022 516093 514041 519041 514022 514072 515112 516052 517011 518099 Transpor 533032 536051 537032	Inspectors, Testers, Sorters, Samplers, and Weighers First-Line Supervisors of Production and Operating Workers Sawing Machine Setters, Operators, and Tenders, Wood Welders, Cutters, Solderers, and Brazers Woodworking Machine Setters, Operators, and Tenders, Except Sawing Electrical and Electronic Equipment Assemblers Upholsterers Rolling Machine Setters, Operators, and Tenders, Metal and Plastic Machinists Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders Forging Machine Setters, Operators, and Tenders, Metal and Plastic Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic Printing Press Operators Tailors, Dressmakers, and Custom Sewers Cabinetmakers and Bench Carpenters Plant and System Operators, All Other  tation/Material Moving Occupations Heavy and Tractor-Trailer Truck Drivers Light Truck or Delivery Services Drivers Transportation Inspectors Excavating and Loading Machine and Dragline Operators	20 13 8 7 6 5 3 2 2 1 1 1 1 1 299 166 115 5 5	\$13.90 \$22.23 \$11.73 \$18.72 \$12.27 \$13.73 \$15.60 \$14.66 \$18.90 \$12.71 \$16.83 \$11.77 \$12.76 \$12.14 \$11.98 \$32.19 \$17.35 \$12.63 \$23.45 \$15.40	Postsecondary non-degree award High school diploma or equivalent Less than high school High school diploma or equivalent Less than high school High school diploma or equivalent

# APPENDIX K: EDUCATION JOB POSTINGS<sup>4</sup>

	ALLENDIA K. EDUCATION	JOD		111100
OSOC	Description	Job Openings	Median Hourly Earnings	Education_Level
Manage	ment Occupations	19	\$32.88	
113011	Administrative Services Managers	10	\$26.08	Bachelor's degree
111021	General and Operations Managers	9	\$39.67	Bachelor's degree
Business	/Financial Occupations	26	\$29.54	
131199	Business Operations Specialists, All Other	26	\$29.54	High school diploma or equivalent
	er/Mathematical Occupations	17	\$22.59	riigii scriedi dipiorrid di equivalerii
151151 151134	Computer User Support Specialists  Web Developers	7	\$18.57 \$26.60	Some college, no degree  Associate's degree
				Associate's degree
	ring Occupations	3	\$22.86	
173027	Mechanical Engineering Technicians	2	\$25.05	Associate's degree
173011	Architectural and Civil Drafters	1	\$20.67	Associate's degree
Life/Phys	sical/Social Science Occupations	8	\$16.95	
194011	Agricultural and Food Science Technicians	5	\$13.24	Associate's degree
194093	Forest and Conservation Technicians	2	\$19.31	Associate's degree
194031	Chemical Technicians	1	\$18.31	Associate's degree
Educatio	on/Training Occupations	70	\$12.01	
259041	Teacher Assistants	53	\$8.74	Some college, no degree
253021	Self-Enrichment Education Teachers	13	\$15.59	High school diploma or equivalent
252011	Preschool Teachers, Except Special Education	4	\$11.71	Associate's degree
Art and I	Media Occupations	13	\$21.02	
272021	Athletes and Sports Competitors	3	\$50.51	High school diploma or equivalent
274011	Audio and Video Equipment Technicians	3	\$15.65	Postsecondary non-degree award
274032	Film and Video Editors	3	\$13.85	Bachelor's degree
274021 272023	Photographers Umpires, Referees, and Other Sports Officials	2	\$13.17 \$18.91	High school diploma or equivalent High school diploma or equivalent
274012	Broadcast Technicians	1	\$14.01	Associate's degree
	are Occupations	57	\$18.11	/ bacciare a degree
319096 292056	Veterinary Assistants and Laboratory Animal Caretakers  Veterinary Technologists and Technicians	32 17	\$10.37 \$13.93	High school diploma or equivalent  Associate's degree
292034	Radiologic Technologists	2	\$13.73	Associate's degree
292061	Licensed Practical and Licensed Vocational Nurses	2	\$17.05	Postsecondary non-degree award
311014	Nursing Assistants	2	\$9.91	Postsecondary non-degree award
291141	Registered Nurses	1	\$27.52	Associate's degree
292032	Diagnostic Medical Sonographers	1	\$26.50	Associate's degree
Protectiv	re Service Occupations	27	\$18.50	
333051	Police and Sheriff's Patrol Officers	10	\$15.56	High school diploma or equivalent
333041	Parking Enforcement Workers	7	\$19.28	High school diploma or equivalent
339032	Security Guards	7	\$10.06	High school diploma or equivalent
331012 333021	First-Line Supervisors of Police and Detectives  Detectives and Criminal Investigators	2	\$24.54 \$23.07	High school diploma or equivalent High school diploma or equivalent
		44	1	підті ястіоої аіріотта от ефотуалент
	paration/Serving Occupations	41	\$21.41	
351011	Chefs and Head Cooks	41	\$21.41	High school diploma or equivalent
Building/	/Grounds Cleaning/Maintenance Occupations	4	\$15.82	
371012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	3	\$18.86	High school diploma or equivalent
372021	Pest Control Workers	1	\$12.77	High school diploma or equivalent
	Care/Service Occupations	41	\$15.44	
395012	Hairdressers, Hairstylists, and Cosmetologists	16	\$12.00	Postsecondary non-degree award
399041	Residential Advisors	13	\$10.13	High school diploma or equivalent
399011 391021	Childcare Workers First-Line Supervisors of Personal Service Workers	7	\$8.69 \$14.53	High school diploma or equivalent High school diploma or equivalent
393092	Costume Attendants	1	\$33.35	High school diploma or equivalent
399031	Fitness Trainers and Aerobics Instructors	1	\$13.93	High school diploma or equivalent
	dministrative Support Occupations	360	\$14.75	
436014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	113	\$13.32	High school diploma or equivalent
434111	Interviewers, Except Eligibility and Loan	79	\$12.69	High school diploma or equivalent
436011	Executive Secretaries and Executive Administrative Assistants	33	\$18.15	High school diploma or equivalent
434071	File Clerks	26	\$10.94	High school diploma or equivalent
433031	Bookkeeping, Accounting, and Auditing Clerks	23	\$15.31	High school diploma or equivalent
434161 439061	Human Resources Assistants, Except Payroll and Timekeeping  Office Clerks, General	18	\$16.99 \$10.63	High school diploma or equivalent High school diploma or equivalent
707001	omeo ciona, conordi	12	ψ10.00	Lingin school diploma of equivalent

<sup>&</sup>lt;sup>4</sup> Job Openings from MDES 2015

434171	Receptionists and Information Clerks	9	\$11.14	High school diploma or equivalent
433051	Payroll and Timekeeping Clerks	5	\$15.77	High school diploma or equivalent
434081	Hotel, Motel, and Resort Desk Clerks	5	\$9.00	High school diploma or equivalent
435071	Shipping, Receiving, and Traffic Clerks	5	\$13.11	High school diploma or equivalent
439021	Data Entry Keyers	5	\$11.73	High school diploma or equivalent
433061	Procurement Clerks	4	\$18.37	High school diploma or equivalent
434121	Library Assistants, Clerical	4	\$9.42	High school diploma or equivalent
434051	Customer Service Representatives	3	\$12.83	High school diploma or equivalent
433011	Bill and Account Collectors	2	\$13.85	High school diploma or equivalent
433099	Financial Clerks, All Other	2	\$15.24	High school diploma or equivalent
436013	Medical Secretaries	2	\$13.74	High school diploma or equivalent
439022	Word Processors and Typists	2	\$12.94	High school diploma or equivalent
439051	Mail Clerks and Mail Machine Operators, Except Postal Service	2	\$12.60	High school diploma or equivalent
431011	First-Line Supervisors of Office and Administrative Support Workers	1	\$20.59	High school diploma or equivalent
435031	Police, Fire, and Ambulance Dispatchers	1	\$11.60	High school diploma or equivalent
435032	Dispatchers, Except Police, Fire, and Ambulance	1	\$15.21	High school diploma or equivalent
435081	Stock Clerks and Order Fillers	1	\$9.97	Less than high school
439011	Computer Operators	1	\$16.34	High school diploma or equivalent
439111	Statistical Assistants	1	\$42.00	Bachelor's degree
Construc	tion Occupations	18	\$17.81	
472031	Carpenters	5	\$16.44	High school diploma or equivalent
472111	Electricians	4	\$21.50	High school diploma or equivalent
472152	Plumbers, Pipefitters, and Steamfitters	2	\$18.48	High school diploma or equivalent
473013	HelpersElectricians	2	\$12.20	High school diploma or equivalent
473015	Helpers-Pipelayers, Plumbers, Pipefitters, and Steamfitters	2	\$11.65	High school diploma or equivalent
471011	First-Line Supervisors of Construction Trades and Extraction Workers	1	\$24.24	High school diploma or equivalent
				riigit scribot diplottid of equivalent
472011	Roilermakers	1	\$21.88	High school diploma or equivalent
472011 472073	Operating Engineers and Other Construction Equipment Operators	1	\$21.88 \$16.12	High school diploma or equivalent
472073	Operating Engineers and Other Construction Equipment Operators	1	\$16.12	High school diploma or equivalent High school diploma or equivalent
472073 Installation	Operating Engineers and Other Construction Equipment Operators on/Maintenance/Repair Occupations	39	\$16.12 <b>\$19.23</b>	High school diploma or equivalent
472073 Installatio	Operating Engineers and Other Construction Equipment Operators  on/Maintenance/Repair Occupations  Maintenance and Repair Workers, General	39 18	\$16.12 <b>\$19.23</b> \$13.40	High school diploma or equivalent High school diploma or equivalent
472073 Installation 499071 493031	Operating Engineers and Other Construction Equipment Operators  on/Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Bus and Truck Mechanics and Diesel Engine Specialists	1 39 18 3	\$16.12 <b>\$19.23</b> \$13.40 \$16.99	High school diploma or equivalent  High school diploma or equivalent  High school diploma or equivalent
472073 Installation 499071 493031 499021	Operating Engineers and Other Construction Equipment Operators  on/Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Bus and Truck Mechanics and Diesel Engine Specialists  Heating, Air Conditioning, and Refrigeration Mechanics and Installers	1 39 18 3 3	\$16.12 <b>\$19.23</b> \$13.40 \$16.99 \$16.89	High school diploma or equivalent  High school diploma or equivalent  High school diploma or equivalent  Postsecondary non-degree award
472073 Installation 499071 493031 499021 499052	Operating Engineers and Other Construction Equipment Operators  on/Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Bus and Truck Mechanics and Diesel Engine Specialists  Heating, Air Conditioning, and Refrigeration Mechanics and Installers  Telecommunications Line Installers and Repairers	1 39 18 3 3 3	\$16.12 <b>\$19.23</b> \$13.40 \$16.99 \$16.89 \$19.38	High school diploma or equivalent  High school diploma or equivalent  High school diploma or equivalent  Postsecondary non-degree award  High school diploma or equivalent
472073 Installation 499071 493031 499021 499052 499041	Operating Engineers and Other Construction Equipment Operators  on/Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Bus and Truck Mechanics and Diesel Engine Specialists  Heating, Air Conditioning, and Refrigeration Mechanics and Installers  Telecommunications Line Installers and Repairers  Industrial Machinery Mechanics	1 39 18 3 3 3 2	\$16.12 \$19.23 \$13.40 \$16.99 \$16.89 \$19.38 \$22.43	High school diploma or equivalent  High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent High school diploma or equivalent
472073 Installation 499071 493031 499021 499052 499041 499051	Operating Engineers and Other Construction Equipment Operators  on/Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Bus and Truck Mechanics and Diesel Engine Specialists  Heating, Air Conditioning, and Refrigeration Mechanics and Installers  Telecommunications Line Installers and Repairers  Industrial Machinery Mechanics  Electrical Power-Line Installers and Repairers	1 39 18 3 3 3 2 2	\$16.12 \$19.23 \$13.40 \$16.99 \$16.89 \$19.38 \$22.43 \$26.66	High school diploma or equivalent  High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent
472073 Installation 499071 493031 499021 499052 499041 499051 499094	Operating Engineers and Other Construction Equipment Operators  on/Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Bus and Truck Mechanics and Diesel Engine Specialists  Heating, Air Conditioning, and Refrigeration Mechanics and Installers  Telecommunications Line Installers and Repairers  Industrial Machinery Mechanics  Electrical Power-Line Installers and Repairers  Locksmiths and Safe Repairers	1 39 18 3 3 3 2 2 2	\$16.12 \$19.23 \$13.40 \$16.99 \$16.89 \$19.38 \$22.43 \$26.66 \$15.48	High school diploma or equivalent  High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent
472073 Installation 499071 493031 499021 499052 499041 499051 499094 491011	Operating Engineers and Other Construction Equipment Operators  on/Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Bus and Truck Mechanics and Diesel Engine Specialists  Heating, Air Conditioning, and Refrigeration Mechanics and Installers  Telecommunications Line Installers and Repairers  Industrial Machinery Mechanics  Electrical Power-Line Installers and Repairers  Locksmiths and Safe Repairers  First-Line Supervisors of Mechanics, Installers, and Repairers	1 39 18 3 3 3 2 2 2 1	\$16.12 \$19.23 \$13.40 \$16.99 \$16.89 \$19.38 \$22.43 \$26.66 \$15.48 \$25.46	High school diploma or equivalent  High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent
472073 Installation 499071 493031 499021 499052 499041 499051 499094 491011 492022	Operating Engineers and Other Construction Equipment Operators  on/Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Bus and Truck Mechanics and Diesel Engine Specialists  Heating, Air Conditioning, and Refrigeration Mechanics and Installers  Telecommunications Line Installers and Repairers  Industrial Machinery Mechanics  Electrical Power-Line Installers and Repairers  Locksmiths and Safe Repairers  First-Line Supervisors of Mechanics, Installers, and Repairers  Telecommunications Equipment Installers and Repairers, Except Line Installers	1 39 18 3 3 3 2 2 2 1	\$16.12 \$19.23 \$13.40 \$16.99 \$16.89 \$19.38 \$22.43 \$26.66 \$15.48 \$25.46 \$30.27	High school diploma or equivalent  High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Pigh school diploma or equivalent High school diploma or equivalent Righ school diploma or equivalent Postsecondary non-degree award
472073 Installation 499071 493031 499021 499052 499041 499051 499094 491011 492022 492098	Operating Engineers and Other Construction Equipment Operators  on/Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Bus and Truck Mechanics and Diesel Engine Specialists  Heating, Air Conditioning, and Refrigeration Mechanics and Installers  Telecommunications Line Installers and Repairers  Industrial Machinery Mechanics  Electrical Power-Line Installers and Repairers  Locksmiths and Safe Repairers  First-Line Supervisors of Mechanics, Installers, and Repairers  Telecommunications Equipment Installers and Repairers, Except Line Installers  Security and Fire Alarm Systems Installers	1 39 18 3 3 3 2 2 2 1 1	\$16.12 \$19.23 \$13.40 \$16.99 \$16.89 \$19.38 \$22.43 \$26.66 \$15.48 \$25.46 \$30.27 \$14.49	High school diploma or equivalent  High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent
472073 Installation 499071 493031 499021 499052 499041 499051 499094 491011 492022 492098 493023	Operating Engineers and Other Construction Equipment Operators  on/Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Bus and Truck Mechanics and Diesel Engine Specialists  Heating, Air Conditioning, and Refrigeration Mechanics and Installers  Telecommunications Line Installers and Repairers  Industrial Machinery Mechanics  Electrical Power-Line Installers and Repairers  Locksmiths and Safe Repairers  First-Line Supervisors of Mechanics, Installers, and Repairers  Telecommunications Equipment Installers and Repairers, Except Line Installers  Security and Fire Alarm Systems Installers  Automotive Service Technicians and Mechanics	1 39 18 3 3 3 2 2 2 2 1 1 1	\$16.12 \$19.23 \$13.40 \$16.99 \$16.89 \$19.38 \$22.43 \$26.66 \$15.48 \$25.46 \$30.27 \$14.49 \$15.25	High school diploma or equivalent  High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent High school diploma or equivalent
472073 Installation 499071 493031 499021 499052 499041 499051 499094 491011 492022 492098 493023 493091	Operating Engineers and Other Construction Equipment Operators  on/Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Bus and Truck Mechanics and Diesel Engine Specialists  Heating, Air Conditioning, and Refrigeration Mechanics and Installers  Telecommunications Line Installers and Repairers  Industrial Machinery Mechanics  Electrical Power-Line Installers and Repairers  Locksmiths and Safe Repairers  First-Line Supervisors of Mechanics, Installers, and Repairers  Telecommunications Equipment Installers and Repairers, Except Line Installers  Security and Fire Alarm Systems Installers  Automotive Service Technicians and Mechanics  Bicycle Repairers	1 39 18 3 3 3 2 2 2 2 1 1 1	\$16.12 \$19.23 \$13.40 \$16.99 \$16.89 \$19.38 \$22.43 \$26.66 \$15.48 \$25.46 \$30.27 \$14.49 \$15.25 \$14.88	High school diploma or equivalent  High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent
472073 Installation 499071 493031 499021 499052 499041 499051 499094 491011 492022 492098 493023	Operating Engineers and Other Construction Equipment Operators  on/Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Bus and Truck Mechanics and Diesel Engine Specialists  Heating, Air Conditioning, and Refrigeration Mechanics and Installers  Telecommunications Line Installers and Repairers  Industrial Machinery Mechanics  Electrical Power-Line Installers and Repairers  Locksmiths and Safe Repairers  First-Line Supervisors of Mechanics, Installers, and Repairers  Telecommunications Equipment Installers and Repairers, Except Line Installers  Security and Fire Alarm Systems Installers  Automotive Service Technicians and Mechanics	1 39 18 3 3 3 2 2 2 2 1 1 1	\$16.12 \$19.23 \$13.40 \$16.99 \$16.89 \$19.38 \$22.43 \$26.66 \$15.48 \$25.46 \$30.27 \$14.49 \$15.25	High school diploma or equivalent  High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent High school diploma or equivalent
472073 Installation 499071 493031 499021 499052 499041 499051 499094 491011 492022 492098 493023 493091 499061	Operating Engineers and Other Construction Equipment Operators  on/Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Bus and Truck Mechanics and Diesel Engine Specialists  Heating, Air Conditioning, and Refrigeration Mechanics and Installers  Telecommunications Line Installers and Repairers  Industrial Machinery Mechanics  Electrical Power-Line Installers and Repairers  Locksmiths and Safe Repairers  First-Line Supervisors of Mechanics, Installers, and Repairers  Telecommunications Equipment Installers and Repairers, Except Line Installers  Security and Fire Alarm Systems Installers  Automotive Service Technicians and Mechanics  Bicycle Repairers	1 39 18 3 3 3 2 2 2 2 1 1 1	\$16.12 \$19.23 \$13.40 \$16.99 \$16.89 \$19.38 \$22.43 \$26.66 \$15.48 \$25.46 \$30.27 \$14.49 \$15.25 \$14.88	High school diploma or equivalent  High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent
472073 Installation 499071 493031 499021 499052 499041 499051 499094 491011 492022 492098 493023 493091 499061	Operating Engineers and Other Construction Equipment Operators  on/Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Bus and Truck Mechanics and Diesel Engine Specialists  Heating, Air Conditioning, and Refrigeration Mechanics and Installers  Telecommunications Line Installers and Repairers  Industrial Machinery Mechanics  Electrical Power-Line Installers and Repairers  Locksmiths and Safe Repairers  First-Line Supervisors of Mechanics, Installers, and Repairers  Telecommunications Equipment Installers and Repairers, Except Line Installers  Security and Fire Alarm Systems Installers  Automotive Service Technicians and Mechanics  Bicycle Repairers  Camera and Photographic Equipment Repairers	1 39 18 3 3 3 2 2 2 1 1 1 1	\$16.12 \$19.23 \$13.40 \$16.99 \$16.89 \$19.38 \$22.43 \$26.66 \$15.48 \$25.46 \$30.27 \$14.49 \$15.25 \$14.88 \$18.39	High school diploma or equivalent  High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent
472073 Installation 499071 493031 499021 499052 499041 499051 499094 491011 492022 492098 493023 493091 499061 Production	Operating Engineers and Other Construction Equipment Operators  on/Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Bus and Truck Mechanics and Diesel Engine Specialists  Heating, Air Conditioning, and Refrigeration Mechanics and Installers  Telecommunications Line Installers and Repairers  Industrial Machinery Mechanics  Electrical Power-Line Installers and Repairers  Locksmiths and Safe Repairers  First-Line Supervisors of Mechanics, Installers, and Repairers  Telecommunications Equipment Installers and Repairers, Except Line Installers  Security and Fire Alarm Systems Installers  Automotive Service Technicians and Mechanics  Bicycle Repairers  Camera and Photographic Equipment Repairers  on Occupations	1 39 18 3 3 3 2 2 2 1 1 1 1 1	\$16.12 \$19.23 \$13.40 \$16.99 \$16.89 \$19.38 \$22.43 \$26.66 \$15.48 \$25.46 \$30.27 \$14.49 \$15.25 \$14.88 \$18.39	High school diploma or equivalent  High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Associate's degree
472073 Installation 499071 493031 499021 499052 499041 499051 499094 491011 492022 492098 493023 493091 499061 Production	Operating Engineers and Other Construction Equipment Operators  On/Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Bus and Truck Mechanics and Diesel Engine Specialists  Heating, Air Conditioning, and Refrigeration Mechanics and Installers  Telecommunications Line Installers and Repairers  Industrial Machinery Mechanics  Electrical Power-Line Installers and Repairers  Locksmiths and Safe Repairers  First-Line Supervisors of Mechanics, Installers, and Repairers  Telecommunications Equipment Installers and Repairers, Except Line Installers  Security and Fire Alarm Systems Installers  Automotive Service Technicians and Mechanics  Bicycle Repairers  Camera and Photographic Equipment Repairers  Structural Metal Fabricators and Fitters	1	\$16.12 \$19.23 \$13.40 \$16.99 \$16.89 \$19.38 \$22.43 \$26.66 \$15.48 \$25.46 \$30.27 \$14.49 \$15.25 \$14.88 \$18.39 \$17.36	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Associate's degree  High school diploma or equivalent
472073 Installation 499071 493031 499021 499052 499041 499051 499094 491011 492022 492098 493023 493091 499061 Production 512041 514041 519196	Operating Engineers and Other Construction Equipment Operators  On/Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Bus and Truck Mechanics and Diesel Engine Specialists  Heating, Air Conditioning, and Refrigeration Mechanics and Installers  Telecommunications Line Installers and Repairers  Industrial Machinery Mechanics  Electrical Power-Line Installers and Repairers  Locksmiths and Safe Repairers  First-Line Supervisors of Mechanics, Installers, and Repairers  Telecommunications Equipment Installers and Repairers, Except Line Installers  Security and Fire Alarm Systems Installers  Automotive Service Technicians and Mechanics  Bicycle Repairers  Camera and Photographic Equipment Repairers  Structural Metal Fabricators and Fitters  Machinists	1	\$16.12 \$19.23 \$13.40 \$16.99 \$16.89 \$19.38 \$22.43 \$26.66 \$15.48 \$25.46 \$30.27 \$14.49 \$15.25 \$14.88 \$18.39 \$17.36	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent High school diploma or equivalent Associate's degree  High school diploma or equivalent High school diploma or equivalent Associate's degree
472073 Installation 499071 493031 499021 499052 499041 499051 499094 491011 492022 492098 493023 493091 499061 Production 512041 514041 519196	Operating Engineers and Other Construction Equipment Operators  On/Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Bus and Truck Mechanics and Diesel Engine Specialists  Heating, Air Conditioning, and Refrigeration Mechanics and Installers  Telecommunications Line Installers and Repairers  Industrial Machinery Mechanics  Electrical Power-Line Installers and Repairers  Locksmiths and Safe Repairers  First-Line Supervisors of Mechanics, Installers, and Repairers  Telecommunications Equipment Installers and Repairers, Except Line Installers  Security and Fire Alarm Systems Installers  Automotive Service Technicians and Mechanics  Bicycle Repairers  Camera and Photographic Equipment Repairers  on Occupations  Structural Metal Fabricators and Fitters  Machinists  Paper Goods Machine Setters, Operators, and Tenders	1	\$16.12 \$19.23 \$13.40 \$16.99 \$16.89 \$19.38 \$22.43 \$26.66 \$15.48 \$25.46 \$30.27 \$14.49 \$15.25 \$14.88 \$18.39 \$17.36 \$17.42 \$18.90 \$15.76	High school diploma or equivalent  High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Associate's degree  High school diploma or equivalent
472073 Installation 499071 493031 499021 499052 499041 499051 499094 491011 492022 492098 493023 493091 499061 Production 512041 519196 Transport 533021	Operating Engineers and Other Construction Equipment Operators  on/Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Bus and Truck Mechanics and Diesel Engine Specialists  Heating, Air Conditioning, and Refrigeration Mechanics and Installers  Telecommunications Line Installers and Repairers  Industrial Machinery Mechanics  Electrical Power-Line Installers and Repairers  Locksmiths and Safe Repairers  First-Line Supervisors of Mechanics, Installers, and Repairers  Telecommunications Equipment Installers and Repairers, Except Line Installers  Security and Fire Alarm Systems Installers  Automotive Service Technicians and Mechanics  Bicycle Repairers  Camera and Photographic Equipment Repairers  on Occupations  Structural Metal Fabricators and Fitters  Machinists  Paper Goods Machine Setters, Operators, and Tenders  fation/Material Moving Occupations  Bus Drivers, Transit and Intercity	1	\$16.12 \$19.23 \$13.40 \$16.99 \$16.89 \$19.38 \$22.43 \$26.66 \$15.48 \$25.46 \$30.27 \$14.49 \$15.25 \$14.88 \$18.39 \$17.36 \$17.42 \$18.90 \$15.76 \$15.27	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Associate's degree  High school diploma or equivalent
472073 Installation 499071 493031 499021 499052 499041 499051 499094 491011 492022 492098 493023 493091 499061 Production 512041 514041 519196 Transport 533022	Operating Engineers and Other Construction Equipment Operators  On/Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Bus and Truck Mechanics and Diesel Engine Specialists  Heating, Air Conditioning, and Refrigeration Mechanics and Installers  Telecommunications Line Installers and Repairers  Industrial Machinery Mechanics  Electrical Power-Line Installers and Repairers  Locksmiths and Safe Repairers  First-Line Supervisors of Mechanics, Installers, and Repairers  Telecommunications Equipment Installers and Repairers, Except Line Installers  Security and Fire Alarm Systems Installers  Automotive Service Technicians and Mechanics  Bicycle Repairers  Camera and Photographic Equipment Repairers  On Occupations  Structural Metal Fabricators and Fitters  Machinists  Paper Goods Machine Setters, Operators, and Tenders  Material Moving Occupations  Bus Drivers, Transit and Intercity  Bus Drivers, School or Special Client	1	\$16.12 \$19.23 \$13.40 \$16.99 \$16.89 \$19.38 \$22.43 \$26.66 \$15.48 \$25.46 \$30.27 \$14.49 \$15.25 \$14.88 \$18.39 \$17.36 \$17.42 \$18.90 \$15.76 \$15.76 \$15.76	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent High school diploma or equivalent Associate's degree  High school diploma or equivalent
472073 Installation 499071 493031 499021 499052 499041 499051 499094 491011 492022 492098 493023 493091 499061 Production 512041 519196 Transport 533021	Operating Engineers and Other Construction Equipment Operators  on/Maintenance/Repair Occupations  Maintenance and Repair Workers, General  Bus and Truck Mechanics and Diesel Engine Specialists  Heating, Air Conditioning, and Refrigeration Mechanics and Installers  Telecommunications Line Installers and Repairers  Industrial Machinery Mechanics  Electrical Power-Line Installers and Repairers  Locksmiths and Safe Repairers  First-Line Supervisors of Mechanics, Installers, and Repairers  Telecommunications Equipment Installers and Repairers, Except Line Installers  Security and Fire Alarm Systems Installers  Automotive Service Technicians and Mechanics  Bicycle Repairers  Camera and Photographic Equipment Repairers  on Occupations  Structural Metal Fabricators and Fitters  Machinists  Paper Goods Machine Setters, Operators, and Tenders  fation/Material Moving Occupations  Bus Drivers, Transit and Intercity	1	\$16.12 \$19.23 \$13.40 \$16.99 \$16.89 \$19.38 \$22.43 \$26.66 \$15.48 \$25.46 \$30.27 \$14.49 \$15.25 \$14.88 \$18.39 \$17.36 \$17.42 \$18.90 \$15.76 \$15.27	High school diploma or equivalent High school diploma or equivalent High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent Postsecondary non-degree award High school diploma or equivalent

# APPENDIX K: ACCOMMODATION/LEISURE JOB POSTINGS<sup>5</sup>

OSOC CODE	Description	Job Openings	Median Hourly Earnings	Education_Level
Managem	ent Occupations	272	\$26.73	
119051	Food Service Managers	210	\$22.42	High school diploma or equivalent
111021	General and Operations Managers	38	\$39.67	Bachelor's degree
119081	Lodging Managers	23	\$18.74	High school diploma or equivalent
113011	Administrative Services Managers	1	\$26.08	Bachelor's degree
Business/Fi	inancial Occupations	6	\$25.22	
131199	Business Operations Specialists, All Other	4	\$29.54	High school diploma or equivalent
131022	Wholesale and Retail Buyers, Except Farm Products	1	\$27.15	High school diploma or equivalent
132081	Tax Examiners and Collectors, and Revenue Agents	1	\$18.98	Bachelor's degree
Protective	Service Occupations	16	\$12.61	
339032	Security Guards	12	\$10.06	High school diploma or equivalent
339031	Gaming Surveillance Officers and Gaming Investigators	4	\$15.16	High school diploma or equivalent
Food Prepo	aration/Serving Occupations	126	\$16.74	
351012	First-Line Supervisors of Food Preparation and Serving Workers	117	\$12.06	High school diploma or equivalent
351011	Chefs and Head Cooks	9	\$21.41	High school diploma or equivalent
Building/G	rounds Cleaning/Maintenance Occupations	29	\$16.43	
371011	First-Line Supervisors of Housekeeping and Janitorial Workers	25	\$13.99	High school diploma or equivalent
	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping		·	
371012	Workers	4	\$18.86	High school diploma or equivalent
Personal C	are/Service Occupations	28	\$14.09	
393011	Gaming Dealers	14	\$8.67	High school diploma or equivalent
391011	Gaming Supervisors	6	\$20.47	High school diploma or equivalent
399031	Fitness Trainers and Aerobics Instructors	4	\$13.93	High school diploma or equivalent
396011	Baggage Porters and Bellhops	3	\$9.86	High school diploma or equivalent
395094	Skincare Specialists	1	\$17.53	Postsecondary non-degree award
Sales Occi	upations	61	\$13.51	
419011	Demonstrators and Product Promoters	55	\$15.51	High school diploma or equivalent
412012	Gaming Change Persons and Booth Cashiers	6	\$11.50	High school diploma or equivalent
Office/Adr	ministrative Support Occupations	469	\$13.73	
434081	Hotel, Motel, and Resort Desk Clerks	417	\$9.00	High school diploma or equivalent
436011	Executive Secretaries and Executive Administrative Assistants	13	\$18.15	High school diploma or equivalent
434051	Customer Service Representatives	11	\$12.83	High school diploma or equivalent
433041	Gaming Cage Workers	8	\$12.09	High school diploma or equivalent
434161 439061	Human Resources Assistants, Except Payroll and Timekeeping  Office Clerks, General	4	\$16.99 \$10.63	High school diploma or equivalent High school diploma or equivalent
433031	Bookkeeping, Accounting, and Auditing Clerks	3	\$15.31	High school diploma or equivalent
431011	First-Line Supervisors of Office and Administrative Support Workers	2	\$20.59	High school diploma or equivalent
436014	Secretaries and Administrative Assistants, Except Legal, Medical, and	2	\$13.32	High school diploma or equivalent
432021	Executive Telephone Operators	1	\$10.47	High school diploma or equivalent
433071	Tellers	1	\$10.47	High school diploma or equivalent
434071	File Clerks	1	\$10.94	High school diploma or equivalent
434171	Receptionists and Information Clerks	1	\$11.14	High school diploma or equivalent
435061	Production, Planning, and Expediting Clerks	1	\$19.48	High school diploma or equivalent
Construction	on Occupations	6	\$16.44	
472031	Carpenters	6	\$16.44	High school diploma or equivalent
	/Maintenance/Repair Occupations	184	\$18.69	g. raditati di promiti di deprimitati
492094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	100	\$19.00	Postsecondary non-degree award
499071	Maintenance and Repair Workers, General	67	\$13.40	High school diploma or equivalent
499098	HelpersInstallation, Maintenance, and Repair Workers	7	\$11.93	High school diploma or equivalent
499099	Installation, Maintenance, and Repair Workers, All Other	3	\$20.94	High school diploma or equivalent
491011	First-Line Supervisors of Mechanics, Installers, and Repairers	2	\$25.46	High school diploma or equivalent
499041	Industrial Machinery Mechanics	2	\$22.43	High school diploma or equivalent
492092	Electric Motor, Power Tool, and Related Repairers	1	\$19.33	Postsecondary non-degree award
499021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	1	\$16.89	Postsecondary non-degree award
499043	Maintenance Workers, Machinery		\$18.83	High school diploma or equivalent
	Occupations	156	\$13.73	
519061	Inspectors, Testers, Sorters, Samplers, and Weighers	150	\$13.90	High school diploma or equivalent
513093	Food Cooking Machine Operators and Tenders  Tailors Processingham and Custom Sources	3	\$9.99	High school diploma or equivalent
516052	Tailors, Dressmakers, and Custom Sewers	2	\$12.14	Less than high school

 $<sup>^{5}</sup>$  Job Openings from MDES 2015

514041	Machinists	1	\$18.90	High school diploma or equivalent
Transporta	tion/Material Moving Occupations	120	\$16.90	
533033	Light Truck or Delivery Services Drivers	100	\$12.63	High school diploma or equivalent
533032	Heavy and Tractor-Trailer Truck Drivers	11	\$17.35	Postsecondary non-degree award
531031	First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators	5	\$23.73	High school diploma or equivalent
531021	First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand	2	\$21.68	High school diploma or equivalent
533022	Bus Drivers, School or Special Client	2	\$9.10	High school diploma or equivalent

#### **SWIB TASK FORCE MEMBERS**

**Ronald Aldridge**, State Director National Federation of Independent Business

**Alice Clark,** Ph.D., Vice Chancellor for Research University of Mississippi

**John Davis**, Deputy Administrator Mississippi Department of Human Services

Mary Graham, Ph.D., President Mississippi Gulf Coast Community College

Mark Henry, Executive Director Mississippi Department of Employment Security

**Clarke Holmes**, Chief Executive Officer Central Mississippi Planning and Development District

**James Hull,** Executive Director Move Mississippi Forward

**Vernon R. (Randy) Kelley, III,** Executive Director Three Rivers Planning and Development District, Inc.

**Scott Maynard**, Director Mississippi State University Career Center

**Jim McArthur**, Deputy Director Mississippi Development Authority (MDA) Marcella L. McKay, President/CEO MHA Health, Research & Educational Foundation, Inc

**Jay C. Moon**, President and CEO Mississippi Manufacturers Association

**Mike Mulvihill**, Director, Bureau of Compliance & Reporting
Mississippi Department of Education

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